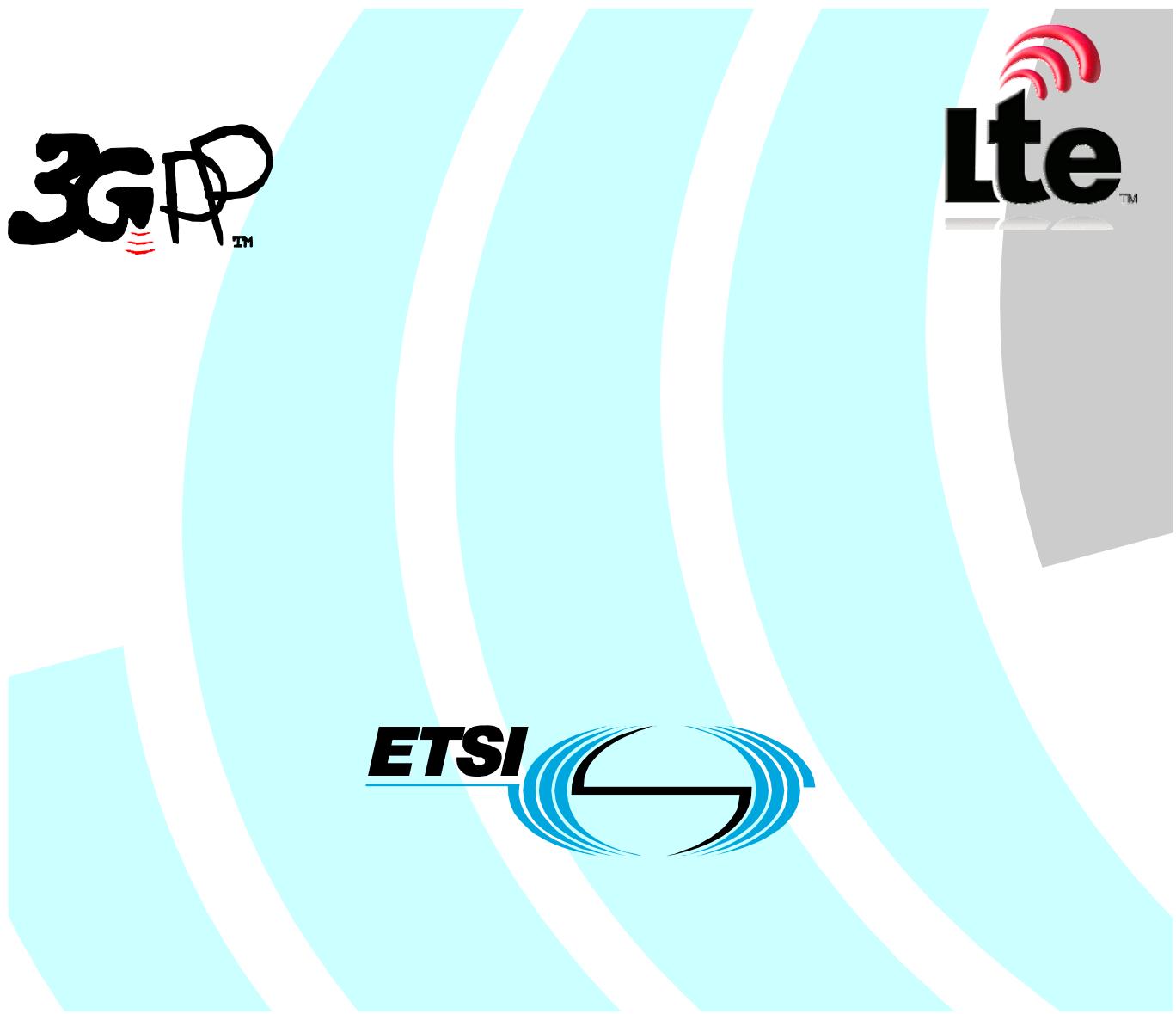


ETSI TS 134 108 V9.4.0 (2011-07)

Technical Specification

**Universal Mobile Telecommunications System (UMTS);
LTE;
Common test environments for User Equipment (UE);
Conformance testing
(3GPP TS 34.108 version 9.4.0 Release 9)**



Reference

RTS/TSGR-0534108v940

Keywords

LTE, UMTS

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Sous-Préfecture de Grasse (06) N° 7803/88

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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	265
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	266
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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	270
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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	277
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	279

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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.....	283
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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.....	288
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	289
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	290
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	292
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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	293
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	295
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	296
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	298
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	299
6.10.2.4.1.24	Void	301
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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.....	302
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.....	303
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.....	304
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.....	305
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.....	306
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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.....	308
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.....	309
6.10.2.4.1.36	Void	310
6.10.2.4.1.37	Void	310
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	310
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	311
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	313

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	315
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	316
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	318
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	319
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	320
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	321
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	323
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	325
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).....	326
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	328
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	329
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	329
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	330
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	331
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	332
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	335
6.10.2.4.1.46	Void	336
6.10.2.4.1.47	Void	336
6.10.2.4.1.48	Void	336
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.....	336
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.....	337
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.....	338
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	339
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	340
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	341
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	342
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	343
6.10.2.4.1.54	Void	343
6.10.2.4.1.55	Void	343
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	343
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	345
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.....	347

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.....	348
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.....	349
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.....	352
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	353
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	356
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.....	358
6.10.2.4.2	Combinations on PDSCH and DPCH.....	359
6.10.2.4.2.1	Void	359
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.....	359
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.....	360
6.10.2.4.2.4	Void	362
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	362
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	362
6.10.2.4.3	Combinations on SCCPCH	363
6.10.2.4.3.1	Stand-alone signalling RB for PCCH	363
6.10.2.4.3.2	Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	364
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	365
6.10.2.4.3.3	Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH	366
6.10.2.4.3.4	RB for CTCH + SRB for CCCH + SRB for BCCH	367
6.10.2.4.3.5	64.8kbps RB for MTCH with 80 ms TTI.....	368
6.10.2.4.3.6	129.6 kbps RB for MTCH with 80 ms TTI.....	369
6.10.2.4.3.7	259.2 kbps RB for MTCH with 40 ms TTI.....	370
6.10.2.4.3.8	7.6 kbps signalling RB for MCCH.....	371
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.....	371
6.10.2.4.4	Combinations on PRACH	372
6.10.2.4.4.1	Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH	372
6.10.2.4.4.2	Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH	373
6.10.2.4.5	Combinations on DPCH and HS-PDSCH	375
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	375
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	379
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	380
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.....	381
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.....	382
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.....	383
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.....	384

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 Uplink 384
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 386
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 387
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 + UL:3.4 DL:3.4 kbps SRBs for DCCH 389
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 390
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 393
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 396
6.10.2.4.6	Combinations on HS-PDSCH and E-DPDCH 397
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 397
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 399
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 400
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 400
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 403
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 403
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) 404
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) 406
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 409

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.....	410
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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.....	430
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	432
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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	441
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	443
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	444
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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.....	449
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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	455
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	457
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6.10.3.4.1.22	Void	458
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	458
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	460
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	461
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	462

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	464
6.10.3.4.1.24	Void	465
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.....	465
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.....	466
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.....	467
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.....	468
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.....	469
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.....	470
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.....	471
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.....	472
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.....	473
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.....	473
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.....	474
6.10.3.4.1.36	Void	475
6.10.3.4.1.37	Void	475
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	475
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	477
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	478
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	479
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	481
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	483
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	484
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.....	485
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.....	487
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.....	488
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.....	490
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	491
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	492
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	494
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	495
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	497

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	498
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	501
6.10.3.4.1.46	Void	502
6.10.3.4.1.47	Void	502
6.10.3.4.1.48	Void	502
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	502
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.....	503
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	504
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	505
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	507
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	508
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	508
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	509
6.10.3.4.1.54	Void	510
6.10.3.4.1.55	Void	510
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	510
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	511
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.....	513
6.10.3.4.1.59	Reserved for future use	514
6.10.3.4.1.60	Reserved for future use	514
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	514
6.10.3.4.2	Combinations on PDSCH, SCCPCH, PUSCH and PRACH	516
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.....	516
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	522
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	524
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	525
6.10.3.4.3	Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH	527
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.....	527
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.....	529
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 ..	530
6.10.3.4.4	Combinations on SCCPCH	531
6.10.3.4.4.1	Stand-alone signalling RB for PCCH	531
6.10.3.4.4.2	Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	532

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	533
6.10.3.4.4.2b	SRBs for CCCH + SRB for DCCH + SRB for BCCH	534
6.10.3.4.4.3	Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH	535
6.10.3.4.4.3a	SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH	535
6.10.3.4.4.4	RB for CTCH + SRB for CCCH + SRB for BCCH	536
6.10.3.4.4.5	64.8kbps RB for MTCH with 80 ms TTI.....	537
6.10.3.4.4.6	129.6kbps RB for MTCH with 80 ms TTI.....	538
6.10.3.4.4.7	259.2 kbps RB for MTCH with 40 ms TTI.....	539
6.10.3.4.4.8	7.6 kbps signalling RB for MCCH.....	540
6.10.3.4.4.9	124.4kbps RB for MBSFN MTCH with 80 ms TTI	541
6.10.3.4.4.10	320.4kbps RB for MBSFN MTCH with 80 ms TTI	542
6.10.3.4.4.11	497.6kbps RB for MBSFN MTCH with 80 ms TTI	543
6.10.3.4.4.12	7.2 kbps signalling RB for MBSFN MCCH	544
6.10.3.4.5	Combinations on PRACH	544
6.10.3.4.5.1	SRB for CCCH + SRB for DCCH.....	544
6.10.3.4.5.2	Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH	545
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.....	545
6.10.3.4.6	Combinations on DPCH and HS-PDSCH	546
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	546
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	548
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	549
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.....	549
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.....	551
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.....	551
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.....	553
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.....	553
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	555
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.....	556
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	557
6.10.3.4.7	Combinations on HS-PDSCH and E-PUCH	559
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 DCCCH on DCH	559
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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	646
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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	647
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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	649
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	650
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	651
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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	653
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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	655
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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.....	659
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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	664
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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	791
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	793
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.....	795
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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.....	797
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Foreword

This Technical Specification has been produced by the 3rd 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.
-

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 documents 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*.

- [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".

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:

AFC	Automatic Frequency Control
A-GPS	Assisted - Global Positioning System
AM	Acknowledgement Mode
ATT	ATTenuator
BCCCH	Broadcast Control CHannel
CBS	Cell Broadcast Service
CC	Convolutional Coding
CCCH	Common Control CHannel
CCTrCH	Coded Composite Transport CHannel
CS	Circuit Switching
DCCCH	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
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).

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
TTFF	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.
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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 (eg 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/DCCCH 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.

Physical channel	Minimum number	Comments
AICH	1	General Acquisition Indicator Channel that can be used for: - Aquisition Indicator Channel, for PRACH - Access Preamble Acquisition Indicator Channel (AP-ICH), for PCPCH. (For release 99 and release 4 only) - Collision-Detection/Channel-Assignment Indicator Channel (CD/CA-ICH), for PCPCH. (For release 99 and release 4 only)
DPDCH	3	Downlink Physical Data Channel. There will be a single DPCCH 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
Control channels		
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.
Traffic channels		
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.
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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
Control channels		

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.
Traffic channels		
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_{cell} timing offset

In test case parameter declarations, the parameter T_{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_{cell} value of 2 304, with a step resolution of 256. The SS may limit a T_{cell} value of greater than 2 304, and may round T_{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 $2 \times \text{TTI} + t_{\text{delta}}$, whichever value is the greater.

Where t_{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 center 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. The test frequencies for the common test environment for each operating band in DC-HSDPA mode are defined in the following tables.

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	9 613	1 922.6 MHz	10 563	2 112.6 MHz
Mid Range	9 750	1 950.0 MHz	10 700	2 140.0 MHz
High Range	9 887	1 977.4 MHz	10 837	2 167.4 MHz

For DC-HSDPA mode:

Test Frequency ID	HS-DSCH Cell	UARFCN	Frequency of Uplink	UARFCN	Frequency of Downlink
Low Range	Serving Cell	9 613	1 922.6 MHz	10 563	2 112.6 MHz
	Secondary Serving Cell	-	-	10 588	2 117.6 MHz
Mid Range	Serving Cell	9 750	1 950.0 MHz	10 700	2 140.0 MHz
	Secondary Serving Cell	-	-	10 725	2 145.0 MHz
High Range	Serving Cell	9 887	1 977.4 MHz	10 837	2 167.4 MHz
	Secondary Serving Cell	-	-	10 812	2 162.4 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	9 263	1 852.6 MHz	9 663	1 932.6 MHz
Mid Range	9 400	1 880 MHz	9 800	1 960 MHz
High Range	9 537	1 907.4 MHz	9 937	1 987.4 MHz

For DC-HSDPA mode:

Test Frequency ID	HS-DSCH Cell	UARFCN	Frequency of Uplink	UARFCN	Frequency of Downlink
Low Range	Serving Cell	9 263	1 852.6 MHz	9 663	1 932.6 MHz
	Secondary Serving Cell	-	-	9 688	1 937.6 MHz
Mid Range	Serving Cell	9 400	1 880.0 MHz	9 800	1 960.0 MHz
	Secondary Serving Cell	-	-	9 825	1 965.0 MHz
High Range	Serving Cell	9 537	1 907.4 MHz	9 937	1 987.4 MHz
	Secondary Serving Cell	-	-	9 912	1 982.4 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	1 712.6 MHz	1163	1 807.6 MHz

Mid Range	1112	1 747.4 MHz	1337	1 842.4 MHz
High Range	1287	1 782.4 MHz	1512	1 877.4 MHz

For DC-HSDPA mode:

Test Frequency ID	HS-DSCH Cell	UARFCN	Frequency of Uplink	UARFCN	Frequency of Downlink
Low Range	Serving Cell	938	1 712.6 MHz	1163	1 807.6 MHz
	Secondary Serving Cell	-	-	1188	1 812.6 MHz
Mid Range	Serving Cell	1112	1 747.4 MHz	1337	1 842.4 MHz
	Secondary Serving Cell	-	-	1362	1 847.4 MHz
High Range	Serving Cell	1287	1 782.4 MHz	1512	1 877.4 MHz
	Secondary Serving Cell	-	-	1487	1 872.4 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

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	4 133	826.6 MHz	4 358	871.6 MHz
Mid Range	4 175	835 MHz	4 400	880 MHz
High Range	4 232	846.4 MHz	4 457	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	4 133	826.6 MHz	4 358	871.6 MHz
	Secondary Serving Cell	-	-	4 383	876.6 MHz
Mid Range	Serving Cell	4 175	835 MHz	4 400	880.0 MHz
	Secondary Serving Cell	-	-	4 425	885.0 MHz
High Range	Serving Cell	4 232	846.4 MHz	4 457	891.4 MHz
	Secondary Serving Cell	-	-	4 432	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	4 175	835.0MHz	4 400	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	-	-	-	-

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

NOTE 2: In DC-HSDPA 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

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

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	1767.4MHz	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	8 762	1752.4 MHz	9 237	1847.4 MHz
	Secondary Serving Cell	-	-	9 262	1852.4 MHz
Mid Range	Serving Cell	8 837	1767.4MHz	9 312	1862.4 MHz
	Secondary Serving Cell	-	-	9 337	1867.4 MHz
High Range	Serving Cell	8 912	1782.4 MHz	9 387	1877.4 MHz
	Secondary Serving Cell	-	-	9 362	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

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

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	3613	700.6 MHz	3838	730.6 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	3613	700.6 MHz	3838	730.6 MHz
	Secondary Serving Cell	-	-	3863	735.6 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	-	-	-	-

NOTE: In DC-HSDPA 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	-	-	-	-

NOTE: In DC-HSDPA 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	-	-	-	-

NOTE: In DC-HSDPA 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	-	-	-	-

NOTE: In DC-HSDPA 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	4513	793.6
Mid Range	4350	847	4575	806
High Range	4412	859.4	4637	818.4

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	4513	793.6
	Secondary Serving Cell	-	-	4538	798.6
Mid Range	Serving Cell	4338	844.6	4563	803.6
	Secondary Serving Cell	-	-	4588	808.6
High Range	Serving Cell	4412	859.4	4637	818.4
	Secondary Serving Cell	-	-	4612	813.4

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	-	-	-	-

NOTE: In DC-HSDPA 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.

5.1.2 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	Band a		Band b		Band c		Band d		UARFCN
	UARFCN	Frequency (UL and DL)							
Low Range	9504	1900.8 MHz	9254	1850.8 MHz	9554	1910.8 MHz	12854	2570.8 MHz	11504
Mid Range	9550	1910 MHz	9400	1880 MHz	9600	1920 MHz	12950	2595 MHz	11750

High Range	9596	1919.2 MHz	9546	1909.2 MHz	9646	1929.2 MHz	13096	2619.2 MHz	11996
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					

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		

5.2 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			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: -			
7: -	3: -	2: S-CCPCH	Code 2: Section 6.1.3 (SIB5) Code 4: Sections 6.1.1 & 6.1.2 (SIB5) Code 5: Section 6.1.2 (SIB5) See Note.
8: -	4: S-CCPCH		
9: -			
10: -	5: S-CCPCH		
11: -		3: -	Section 6.1.3 (SIB5)
12: -	6: S-CCPCH		
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			Section 6.1.0b (SIB5)
3: AICH			Section 6.1.0b (SIB5)
4: -	2: -	1: S-CCPCH	
5: -			
6: -			Section 6.1.0b (SIB5)
7: -			
8: -	4: -	2: -	
9: -			
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			Section 6.1.0b (SIB5)
3: AICH			Section 6.1.0b (SIB5)
4: -	2: -	1: S-CCPCH	
5: -			
6: -			Section 6.1.0b (SIB5)
7: -			
8: -	4: HS-SCCH1	2: -	
9: -			
10: -			Section 9.1.1 RB Setup message, condition A17a
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 msg, condition A17a
14: -			
15: -	7: -		

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 & Code=0 used in the E-DCH 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 5.5.1.3.1: 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			Section 6.1.0b (SIB5)
3: AICH			Section 6.1.0b (SIB5)
4: -	2: -	1: S-CCPCH	
5: -			Section 6.1.0b (SIB5)
6: -			
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			
11: -			
12: F-DPCH	6: -	3: -	Section 9.1.1 RB Setup message, condition A14
13: -S-CPICH			- Section 9.1.1 RB Setup message, condition A28(when mimo is configured.)
14: -			
15: -			Section 9.1.1 RB Setup message

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			Section 6.1.0b (SIB5)
3: AICH			Section 6.1.0b (SIB5)
4: -	2: -	1: S-CCPCH	
5: -			Section 6.1.0b (SIB5)
6: -			
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			
11: F-DPCH			
12:	6: HS-SCCH1	3: -	
13: -			Section 9.1.1 RB Setup message, condition A17c
14: -			
15: -	7: HS-SCCH2		

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

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

5.5.3 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).

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 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

6.1.0a.2 SIB configurations

Currently five 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_CCPCH 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 1	MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB6, SIB7, SIB11, SIB12, SIB18
Configuration 2	MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB12, SIB18
Configuration 3	MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB16, SIB18
Configuration 4	MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB11bis (empty segment), SIB16, SIB18
Configuration 5	MIB, SIB3, SIB5/SIB5bis, SIB11
Configuration 6	MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB12, SIB18, SIB19
Configuration 7	MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB16, SIB18, SIB19

6.1.0a.3 SIB default schedule

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	4	4	1	3	3	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	SIB12	SIB12
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	-	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

- MIB value tag	A valid MIB value tag value as defined in TS 25.331 [34]
- Supported PLMN types	GSM-MAP
- PLMN type	
- PLMN identity	
- MCC digit	Set to the same Mobile Country Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSII)).
- MNC digit	Set to the same Mobile Network Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSII)).
- ANSI-41 Core Network information	Not Present
- References to other system information blocks and scheduling blocks	
- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value Tag
- Cell Value tag	A valid Cell value tag value as defined in TS 25.331 [34]
- Scheduling	
- SEG_COUNT	1
- SIB REP	16
- SIB_POS	2
- SIB_POS offset info	Not Present - use default
- SIB and SB type	Scheduling Block 1
- 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	22
- SIB_POS offset info	Not Present - use default
- SIB and SB type	System Information Type 1
- 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	22
- SIB_POS offset info	Not Present - use default
- SIB and SB type	System Information Type 2
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB REP	64
- SIB_POS	20
- SIB_POS offset info	Not Present - use default
- SIB and SB type	System Information Type 3
- 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	52
- SIB_POS offset info	Not Present - use default
- SIB and SB type	System Information Type 4
- 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	4
- SIB REP	64
- SIB_POS	38
- SIB_POS offset info	4
- SIB OFF	2
- SIB OFF	2
- SIB OFF	2
- SIB and SB type	System Information Type 5 / System Information Type 5bis
- CSG Indicator	Not Present

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

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

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

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

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

Frame No.	48	50	52	54	56	58	60	62
-----------	----	----	----	----	----	----	----	----

REP-POS	24	25	26	27	28	29	30	31
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB11	SIB11	SIB11
Frame No.	64	66	68	70	72	74	76	78
REP-POS	32	33	34	35	36	37	38	39
Block Type	MIB	SB1	SB1	SIB5/ SIB5bis	MIB	SIB5/ SIB5bis	SIB5/ SIB5bis	SIB5/ SIB5bis
Frame No.	80	82	84	86	88	90	92	94
REP-POS	40	41	42	43	44	45	46	47
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB3		SIB4
Frame No.	96	98	100	102	104	106	108	110
REP-POS	48	49	50	51	52	53	54	55
Block Type	MIB	SB1	SB1		MIB			
Frame No.	112	114	116	118	120	122	124	126
REP-POS	56	57	58	59	60	61	62	63
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB12	SIB12	SIB12

SIB-repeat period (in frame)

Table 2

Block Type	MIB	SB1	SIB1	SIB2	SIB3	SIB4	SIB5/ SIB5bis	SIB7	SIB11	SIB12	SIB18
SIB Rep	8	16	128	128	64	64	128	32	128	128	128
Max. No of seg.	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

Frame No.	0	2	4	6	8	10	12	14
REP-POS	0	1	2	3	4	5	6	7
Block Type	MIB	SB1	SIB6	SIB6	MIB	SIB6	SIB6	SIB7/ SIB3
Frame No.	16	18	20	22	24	26	28	30
REP-POS	8	9	10	11	12	13	14	15
Block Type	MIB	SB1	SIB1/SIB2	SIB12	MIB	SIB12	SIB12	SIB7/ SIB12
Frame No.	32	34	36	38	40	42	44	46
REP-POS	16	17	18	19	20	21	22	23
Block Type	MIB	SB1	SIB5/ SIB5bis	SIB5/ SIB5bis	MIB	SIB5/ SIB5bis	SIB5/ SIB5bis	SIB7/ SIB18
Frame No.	48	50	52	54	56	58	60	62
REP-POS	24	25	26	27	28	29	30	31
Block Type	MIB	SB1	SIB11	SIB11	MIB	SIB11	SIB11	SIB7/SIB 4

SIB-repeat period (in frame)

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
Max. No of seg.	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

Frame No.	0	2	4	6	8	10	12	14
REP-POS	0	1	2	3	4	5	6	7
Block Type	MIB	SB1	SB1		MIB	SIB1	SIB18	SIB2
Frame No.	16	18	20	22	24	26	28	30
REP-POS	8	9	10	11	12	13	14	15
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB3		SIB4
Frame No.	32	34	36	38	40	42	44	46
REP-POS	16	17	18	19	20	21	22	23
Block Type	MIB	SB1	SB1	SIB5/ SIB5bis	MIB	SIB5/ SIB5bis	SIB5/ SIB5bis	SIB5/ SIB5bis
Frame No.	48	50	52	54	56	58	60	62
REP-POS	24	25	26	27	28	29	30	31
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB11	SIB11	SIB11
Frame No.	64	66	68	70	72	74	76	78
REP-POS	32	33	34	35	36	37	38	39
Block Type	MIB	SB1	SB1	SIB16	MIB	SIB16	SIB16	SIB16
Frame No.	80	82	84	86	88	90	92	94
REP-POS	40	41	42	43	44	45	46	47
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB3		SIB4
Frame No.	96	98	100	102	104	106	108	110
REP-POS	48	49	50	51	52	53	54	55
Block Type	MIB	SB1	SB1	SIB16	MIB	SIB16	SIB16	SIB16
Frame No.	112	114	116	118	120	122	124	126
REP-POS	56	57	58	59	60	61	62	63
Block Type	MIB	SB1	SB1	SIB7	MIB			

SIB-repeat period (in frame)

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

6.1.0a.4.4 SIB schedule for MBMS test cases

Table 3

Frame No.	0	2	4	6	8	10	12	14
REP-POS	0	1	2	3	4	5	6	7
Block Type	MIB	SB1	SB1	SIB6	MIB	SIB1	SIB18	SIB2
Frame No.	16	18	20	22	24	26	28	30
REP-POS	8	9	10	11	12	13	14	15
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB3	SIB6	SIB4
Frame No.	32	34	36	38	40	42	44	46
REP-POS	16	17	18	19	20	21	22	23
Block Type	MIB	SB1	SB1	SIB5/ SIB5bis	MIB	SIB5/ SIB5bis	SIB5/ SIB5bis	SIB5/ SIB5bis
Frame No.	48	50	52	54	56	58	60	62
REP-POS	24	25	26	27	28	29	30	31
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB5/ SIB5bis	SIB5/ SIB5bis	SIB5/ SIB5bis
Frame No.	64	66	68	70	72	74	76	78
REP-POS	32	33	34	35	36	37	38	39
Block Type	MIB	SB1	SB1	SIB11	MIB	SIB11	SIB11	SIB11
Frame No.	80	82	84	86	88	90	92	94
REP-POS	40	41	42	43	44	45	46	47
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB11	SIB11	SIB11
Frame No.	96	98	100	102	104	106	108	110
REP-POS	48	49	50	51	52	53	54	55
Block Type	MIB	SB1	SB1	SIB12	MIB	SIB12		
Frame No.	112	114	116	118	120	122	124	126
REP-POS	56	57	58	59	60	61	62	63
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB11bis	SIB11bis	SIB11bis

SIB-repeat period (in frame)

Table 4

Block Type	MIB	SB1	SIB1	SIB2	SIB3	SIB4	SIB5/ SIB5bis	SIB6	SIB7	SIB11	SIB11 bis	SIB12	SIB18
SIB Rep	8	16	128	128	128	128	128	128	32	128	128	128	128
Max. No of seg.	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

- MIB value tag	A valid MIB value tag value as defined in TS 25.331 [34]
- Supported PLMN types	GSM-MAP
- PLMN type	Set to the same Mobile Country Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSII)).
- PLMN identity	Set to the same Mobile Network Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSII)).
- MCC digit	Not Present
- MNC digit	
- ANSI-41 Core Network information	
- References to other system information blocks and scheduling blocks	
- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value Tag
- Cell Value tag	A valid Cell value tag value as defined in TS 25.331 [34]
- Scheduling	
- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	2
- SIB_POS offset info	Not Present - use default
- SIB and SB type	System Information Type 3
- Scheduling information	
- CHOICE Value tag	Cell Value Tag
- Cell Value tag	A valid Cell value tag value as defined in TS 25.331 [34]
- Scheduling	
- SEG_COUNT	2
- SIB_REP	16
- SIB_POS	4
- SIB_POS offset info	Not Present - use default
- SIB and SB type	System Information Type 5
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	A valid Cell value tag value as defined in TS 25.331 [34]
- Scheduling	
- SEG_COUNT	2
- SIB_REP	16
- SIB_POS	10
- SIB_POS offset info	Not Present - use default
- SIB and SB type	System Information Type 11

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

6.1.0b Default System Information Block Messages

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

<ul style="list-style-type: none"> - CN common GSM-MAP NAS system information - GSM-MAP NAS system information - CN domain system information - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain specific DRX cycle length coefficient - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain specific DRX cycle length coefficient 	A1	00 01H PS GSM-MAP 05 00H 7 CS GSM-MAP 1E 01H 7
	A2	00 80H (see note) PS GSM-MAP 00 00H (see note) 7 CS GSM-MAP 1E 01H 7
	A1, A2	4 000 milliseconds 3 10 seconds 1 Not Present (2 000 milliseconds: default value) Not Present (2: default value) Not Present (4 000 milliseconds: default value) Not Present (3: default value) Not Present (2 000 milliseconds: default value) Not Present (2: default value) Not Present (30 minutes: default value) Not Present (30 seconds: default value) Not Present (160 milliseconds: default value) Not Present (5 seconds: default value) Not Present (160 milliseconds: default value) Not Present (4: default value) Not Present (2 000 milliseconds: default value) Not Present (1 seconds: default value) Not Present (1: default value) Not Present (3 seconds: default value) Not Present (20: default value) Not Present (12 seconds: default value) Not Present (180 seconds: default value) Not Present (1: default value) Not Present (30 seconds: default value) 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 - URA identity	<i>Only 1 URA identity broadcasted</i> 0000 0000 0000 0001B
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Contents of System Information Block type 3 (FDD)

Information Element	Value/remark	Version
- SIB4 indicator	TRUE	
- Cell identity	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 _{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 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 (no data)	
- Cell selection and reselection quality measure	TDD	
- CHOICE mode	10 dB	
- Sintrasearch	10 dB	
- Sintersearch	Not present	
- SsearchHCS		
- RAT List	This parameter is configurable	
- RAT identifier	GSM	
- Ssearch,RAT	-32 dB	
- SHCS,RAT	Not present	
- Slimit,SsearchRAT	Not Present	
- Qrxlevmin	Reference to table 6.1.6a	
- Qhyst1s	0 dB	
- Treselections	0 seconds	
- HCS Serving cell information	Not present	
- Maximum allowed UL TX power	30dBm	
- 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		
- 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

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 - S _{limit,SearchRAT} - Qqualmin - Qrxlevmin - Qhyst1s - Qhyst2s - Treselections - HCS Serving cell information	Not Present 0 (0dB) Reference to table 6.1.1 Reference to table 6.1.1 1 (2 dB) Not Present 0 seconds Not Present
- Maximum allowed UL TX power - Cell Access Restriction - Cell barred - Intra-frequency cell re-selection indicator - T _{barred} - Cell Reserved for operator use - Cell Reservation Extension - Access Class Barred List	Reference to table 6.1.1 Not barred Not present Not present Not reserved Not reserved 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 - Cell selection and re-selection info - Mapping info - Cell selection and reselection quality measure - CHOICE mode - Sintrasearch - Sintersearch - SsearchHCS - RAT List - RAT identifier - Ssearch,RAT - SHCS,RAT - S _{limit,ShearchRAT} - Qrxlevmin - Qhyst1s - Treselections - HCS Serving cell information - Maximum allowed UL TX power - Cell Access Restriction - Cell barred - Intra-frequency cell re-selection indicator - T _{barred} - Cell Reserved for operator use - Cell Reservation Extension - Access Class Barred List	0000 0000 0000 0000 0000 0000 0001B Not Present CPICH RSCP TDD 11 dB 11dB Not present This parameter is configurable GSM -32 dB Not present Not Present -103 dBm 0 dB 0 seconds Not present 30dBm Not barred Not present Not present Not reserved Not reserved Not present
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Contents of System Information Block type 5 (FDD)

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

<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>Common transport channels</p> <p>168</p> <p>1</p> <p>FDD</p> <p>Configured</p> <p>360</p> <p>1</p> <p>FDD</p> <p>Configured</p> <p>20 ms</p> <p>Convolutional</p> <p>1/2</p> <p>150</p> <p>16</p>	<p>Rel6</p>	
<ul style="list-style-type: none"> - Additional RACH TFS for CCCH - RLC size - Number of Transport blocks - RACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE Gain Factors - Reference TFC ID - CHOICE Mode - Power offset Pp-m - CTFC information - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE Mode - Power offset Pp-m 	<p>Normal</p> <p>Complete reconfiguration</p> <p>2 bit</p> <p>0</p> <p>Computed Gain Factor</p> <p>0</p> <p>FDD</p> <p>0 dB</p> <p>1</p> <p>Signalled Gain Factor</p> <p>FDD</p> <p>11</p> <p>15</p> <p>0</p> <p>FDD</p> <p>0 dB</p>	<p>Rel-6</p>	
<ul style="list-style-type: none"> - Additional RACH TFCS for CCCH - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE Mode - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number 	<p>Signalled Gain Factor</p> <p>FDD</p> <p>11</p> <p>15</p> <p>0</p> <p>FDD</p> <p>0 dB</p> <p>Not Present</p> <p>FDD</p> <p>0 (ASC#1)</p> <p>7 (ASC#1)</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> <p>FDD</p> <p>0 (ASC#3)</p> <p>7 (ASC#3)</p> <p>'1111'B</p> <p>The first/ leftmost bit of the bit string</p>	<p>Rel-6</p>	
<ul style="list-style-type: none"> - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number 			

		contains the most significant bit of the Assigned Sub-Channel Number. Not Present	
- ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number		FDD 0 (ASC#5) 7 (ASC#5) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. Not Present	
- ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number		FDD 0 (ASC#7) 7 (ASC#7) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. Not Present	
- Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset		0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) 0.9 (for ASC#7) 6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) FDD 31 -10 3dB 4 2 3 slot 10 slot 3 FALSE 0	
- TFCS	M2	Absence of this IE is equivalent to default value 0 (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 - CHOICE CTFC Size		Complete reconfiguration 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		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		0		
- Number of Transport blocks		1		
- Number of Transport blocks		ALL		
- CHOICE Logical channel List				
- 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		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		0		
- Number of Transport blocks				

- Number of Transport blocks - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport channel Identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - PICH info - CHOICE mode - Channelisation code - Number of PI per frame - STTD indicator - MCCH configuration information - MCCH configuration information - Access Info Period coefficient - Repetition Period coefficient - Modification period coefficient - RLC info - DL UM RLC LI size - DL Duplication Avoidance and Reordering info - DL Out of sequence delivery info - Timer OSD - Window size OSD - TCTF presence - CBS DRX Level 1 information - Frequency Band Indicator - Frequency Band Indicator 2 - Frequency Band Indicator - Frequency Band Indicator 2 - Frequency Band Indicator - Frequency Band Indicator 2 - Secondary CCPCH system information MBMS - Secondary CCPCH system information MBMS	M2	1 ALL 10 ms Turbo 130 16bit 14 (for FACH) (FACH) Common transport channels 160 0 1 ALL 20 ms Convolutional 1/3 225 16bit 16 (for FACH) FALSE FDD 2 18 FALSE Not Present	Rel-6 Rel-6
- Secondary CCPCH info MBMS - CHOICE Mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Timing Offset	A1 A2 A3 M2 M1	Not Present 48 Not Present Not Present Not Present FDD Band under test Not Present Extension indicator FDD Band under test Not Present	Rel-6
		FDD Not Present FALSE Reference to clause 5.5.1.4 “Downlink physical channels code allocation for MBMS test cases” Reference to clause 5.5.1.4 “Downlink physical channels code allocation for MBMS test cases” Set to (Cell No, – 21) * 9 for MBMS Cell Nos 21-28. (actual value = IE	

information	- TFCS	value * 256 chips)	
	- CHOICE TFCI signalling	Normal	
	- TFCI Field 1 information	Complete reconfiguration	
	- CHOICE TFCS representation	2 bit	
	- TFCS complete reconfiguration information	0	
	- CHOICE CTFC Size	Not Present	
	- CTFC information	1	
	- Power offset information	Not Present	
	- CTFC information		
	- Power offset information		
Reordering info	- FACH carrying MCCH		
	- TFS	Common transport channels	
	- CHOICE Transport channel type	160	
	- Dynamic Transport format information	0	
	- RLC Size	1	
	- Number of TB and TTI List	ALL	
	- Number of Transport blocks		
	- Number of Transport blocks		
	- CHOICE Logical channel List		
	- 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	Reference to clause 11.1.1 "MCCH configuration parameters"	
	- 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		
	- RLC info MBMS		
Information	- DL UM RLC LI size	7	
	- DL Duplication Avoidance and	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	
	- FACH carrying MSCH	Not Present	
	- CHOICE Mode	B1, B3	FDD
	- HS-DSCH common system information		Rel-7
Information	- CCCH mapping info		Rel-7
	- 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 1 queue	
	- MAC-ehs queue Id	0	
	- T1	50ms	
	- Treset	Not Present	
	- MAC-ehs window size	16	
Information	- HS-SCCH system info		
	- DL Scrambling Code	Not Present	
	- HS-SCCH Channelisation Code	Use 1 HS-SCCH	
	- HS-SCCH Channelisation Code		
	- HARQ system Info		
	- Number of Processes	7	
	- CHOICE Memory Partitioning	Reference to clause 6.10.2.4.5	
	- Common H-RNTI Information	Parameter Set	
	- Common H-RNTI	Implicit	
	- Common H-RNTI	Use 4	
Information		'1111 1010 1010 1010'	
		'1111 1010 1010 1011'	

- Common H-RNTI - Common H-RNTI - BCCH specific H-RNTI - HS-DSCH paging system information - DL Scrambling Code - PICH for HSDPA supported paging list - HSDPA associated PICH info - CHOICE mode - Channelisation code - Number of PI per frame - STTD Indicator - HS-PDSCH Channelisation Code - Number of PCCH transmissions - Transport Block Size List - Transport Block Size Index	'1111 1010 1010 1100' '1111 1010 1010 1110' '1111 1010 1110 1010' Not Present Use value 1 FDD 13 18 False 1 3 1 1	Rel-7
Common EDCH System Info	B2, B3	Rel-8
- UI Interference for common EDCH	Not Present	
- common E-DCH MAC-d flow list	MAC-d flows	
- mac-d flow identity - mac-d flow power offset - mac-d flow max number of retransmissions - mac-d flow multiplexing list - E-DCH-Mac-d flow retransmission timer - mac-d flow identity	0 0 7 Not Present Not Present 1	
- mac-d flow power offset	2	
- mac-d flow max number of retrasmissons	7	
- mac-d flow multiplexing list	Not Present	
- E-DCH-Mac-d flow retransmission timer - mac-d flow identity - mac-d flow power offset - mac-d flow max number of retrasmissons - mac-d flow multiplexing list - E-DCH-Mac-d flow retransmission timer	Not Present 7 (used for CCCH) 0 7 Not Present Not Present	
-CHOICE Mode	FDD	
- Prach preamble for enhanced uplink		
- Available Signatures	'0000 0000 0000 0111'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	rvttable	
- UL DPCH power control info		
- Power Control Algorithm	Algorithm1	
- Δ_{ACK}	3	
- Δ_{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 channelisation codes	2sf4		
- 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	0.04		
- Additional E-DCH transmission back off	5 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		
- ΔCQI	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		
- RG combination index	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		
- RG combination index	0		
- 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
- RG combination index	0
- E-HICH Info	
- Channelisation Code	4
- SignatureSequence	5
- Uplink DPCH Code Info	
- ul-DPCCHScramblingCodeType	Long
- ul-DPCCHScramblingCode	2

Condition	Explanation
A1	Band I, Band II, Band III
A2	Band V, Band VI, Band VII
A3	Band VIII & bands beyond Band X
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/ (1/8)
- Alpha	-10
- 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"

<ul style="list-style-type: none"> - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - Persistence scaling factors - Access Service Class - Persistence scaling factor - AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping 	<ul style="list-style-type: none"> TDD Not Present Configured Reference clause 6.10 "Parameter Set" Not present (ASC#0) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#2) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#3) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#4) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#5) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#6) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null 0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) 6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13)
<ul style="list-style-type: none"> - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - Persistence scaling factors - Access Service Class - Persistence scaling factor - AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping 	<ul style="list-style-type: none"> TDD 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#6) TDD 3.84 Mcps TDD Not Present (Default all) Size1 null 0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) 6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13)

- AC-to-ASC mapping - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - Midamble Shift - CHOICE TDD option - no data - Code List - Channelisation Code - TFCS - CHOICE TFCI signalling - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete information - CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size	1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Not Present (MD "1") Not present (empty) 3.84 Mcps TDD 1 Reference clause 6.10 "Parameter Set" 3.84 Mcps TDD Type 1 Default midamble 4 Not Present 3.84 Mcps TDD (This IE is repeated for Code number for PCH and FACH) (This IE is repeated for TFC number for PCH and FACH) Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 "Parameter Set" Not Present (PCH) Common transport channels Reference clause 6.10 "Parameter Set"
- Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding	Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Reference clause 6.10 "Parameter Set" ALL Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" 12 (for PCH) FALSE (FACH) Common transport channels Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Reference clause 6.10 "Parameter Set" ALL Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set"

- Coding Rate - Rate matching attribute - CRC size	Reference clause 6.10 "Parameter Set"
- Transport channel Identity	Reference clause 6.10 "Parameter Set"
- CTCH indicator	Reference clause 6.10 "Parameter Set"
- TFS	13 (for FACH) FALSE (FACH) Common transport channels
- CHOICE Transport channel type	Reference clause 6.10 "Parameter Set"
- Dynamic Transport format information	Reference clause 6.10 "Parameter Set"
- 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	Reference clause 6.10 "Parameter Set"
- 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) FALSE
- CTCH indicator	
- PICH info	
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Timeslot number	0
- Midamble shift and burst type	Type 1
- CHOICE Burst Type	Default midamble
- Midamble Allocation Mode	8
- Midamble configuration burst type 1 and 3	Not Present
- Midamble Shift	16/16
- Channelisation code	64/2
- Repetition period/length	0
- Offset	4
- Paging indicator length	4
- N_{GAP}	4
- N_{PCH}	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 mode	TDD		
- CHOICE TDD option	1.28 Mcps TDD /REL-4/		
- TSTD indicator	FALSE		
- Cell parameters ID	Not Present		
- Block 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	"11111111"		
- SYNC_UL codes bitmap	10 dB		
- UL Target SIR	3 dB		
- Power Ramping Step			
- Max SYNC_UL Transmissions	8		
- Mmax	32		

<ul style="list-style-type: none"> - PRACH definition - Timeslot number - CHOICE TDD option - Timeslot number - PRACH Channelisation Code - Channelisation Code List - Channelisation Code - Midamble Shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble configuration - Midamble Shift - FPACH info - Timeslot number - Channelisation code - Midamble Shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble configuration - Midamble Shift - WT - Transport channel Identity - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option 	<p>1.28 Mcps TDD /REL-4/ 1 (8/1) 1.28 Mcps TDD /REL-4/ Default midamble 8 Not present 6 (16/16) 1.28 Mcps TDD /REL-4/ Common Midamble 8 Not present 4 15 Common transport channels Reference clause 6.11 "Parameter Set" Reference clause 6.11 "Parameter Set" Reference clause 6.11 "Parameter Set" TDD Not Present Configured Reference clause 6.11 "Parameter Set" Reference clause 6.11 "Parameter Set" Not present (ASC#0) TDD 1.28 Mcps TDD "11111111" Size1 Null (ASC#1) TDD 1.28 Mcps TDD "11111111" Size1 Null (ASC#2) TDD 1.28 Mcps TDD "11111111" Size1 Null (ASC#3) TDD 1.28 Mcps TDD</p>	Rel6

- Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels	"11111111" Size1 Null (ASC#4) TDD 1.28 Mcps TDD "11111111" Size1 Null	
- ASC Settings - CHOICE mode - CHOICE TDD option - Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available SYNC_UL codes indices - CHOICE subchannel size - Available Subchannels	(ASC#5) TDD 1.28 Mcps TDD "11111111" Size1 Null (ASC#6) TDD 1.28 Mcps TDD "11111111" Size1 Null	
- Access Service Class - Persistence scaling factor - AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble configuration - Midamble Shift - CHOICE TDD option - Modulation - SS-TPC Symbols - Code List - Channelisation Code - TFCS	0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) 6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.11 "Parameter Set" Reference clause 6.11 "Parameter Set" 1 0 1.28 Mcps TDD 0 Reference clause 6.11 "Parameter Set" 1.28 Mcps TDD Default midamble 4 Not Present 1.28 Mcps TDD Reference clause 6.11 "Parameter Set" Reference clause 6.11 "Parameter Set" Reference clause 6.11 "Parameter Set" Reference clause 6.11 "Parameter Set"	

- Midamble Shift - Channelisation code list - Channelisation code - Channelisation code - Repetition period/length - Offset - Paging indicator length - N_{GAP} - N_{PCH}		Not Present (16/1) (16/2) 64/2 0 4 4 2	
- CBS DRX Level 1 information	B1	Not Present	
- CHOICE Mode		TDD	Rel-8
- HS-DSCH common system information			Rel-8
- CCCH mapping info		5	
- Logical channel identity		0	
- MAC-ehs queue identity		Not Present	
- SRB1 mapping info			
- Common MAC-ehs reordering queue list		Configure 2 queues	
- MAC-ehs queue to configure list		0	
- MAC-ehs queue Id		50ms	
- T1		Not Present	
- Treset		16	
- MAC-ehs window size		1	
- MAC-ehs queue Id		50ms	
- T1		Not Present	
- Treset		16	
- MAC-ehs window size			
- 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 _{HS-SICH}		-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			
- Number of Processes		Reference to clause 6.11.5.4.6	
		Parameter Set	
		Implicit	
- CHOICE Memory Partitioning			
- 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			
- 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		1.28 Mcps TDD	
- CHOICE TDD option		Default midamble	
- Midamble Allocation Mode		16	
- Midamble Configuration		1.28 Mcps TDD	
- CHOICE TDD option		1	
- Codes list			

- Channelisation code - Repetition period/length - Offset - Paging indicator length - N_{GAP} - N_{PCH}	16/5 Not Present 0 Not Present Not Present 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 TDD option	1.28 Mcps TDD		
- prach-PreambleForEnhancedUplink			
- E-RUCCH Info			
- T-RUCCH	Not Present		
- N-RUCCH	Not Present		
- T-WAIT	Not Present		
- T-SI	Not Present		
- Extended Estimation Window	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	3		
for Scheduling Info			
- Retransmission Timer for Scheduling	40		

Info			
- Power Offset for Scheduling Info	0		
- E-HICH info			
- $N_{E\text{-HICH}}$	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 mode	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
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Contents of System Information Block type 5 (7.68 Mcps TDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 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	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- UE positioning related parameters	Not Present
- Primary CCPCH info	
- CHOICE mode	TDD

- CHOICE TDD option - CHOICE SyncCase	7.68 Mcps TDD Sync Case 2
- Timeslot - Cell parameters ID - SCTD indicator - PRACH system information list - PRACH system information - PRACH info - CHOICE mode - CHOICE TDD option - Timeslot number - PRACH Channelisation Code List VHCR - CHOICE SF - Channelisation Code List - Channelisation Code - Channelisation Code - Channelisation Code - Channelisation Code - PRACH Midamble - PNBSCH allocation - Transport channel Identity - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size	0 Not Present FALSE TDD 7.68 Mcps TDD 14 SF16 16/1 16/2 16/3 16/4 Direct Not Present /REL-4/ 15 Common transport channels Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Not Present Configured Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Not present (ASC#0) TDD 7.68 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD 7.68 Mcps TDD Not Present (Default all) Size1 null (ASC#2) TDD 7.68 Mcps TDD Not Present (Default all) Size1 null (ASC#3) TDD 7.68 Mcps TDD Not Present (Default all) Size1 null (ASC#4) TDD 7.68 Mcps TDD Not Present (Default all) Size1

- Available Subchannels - ASC Settings	null (ASC#5)
- CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - Persistence scaling factors - Access Service Class - Persistence scaling factor - AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - Midamble Shift - CHOICE TDD option - no data - Code List - Channelisation Code - TFCS - CHOICE TFCI signalling - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete information - CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type	TDD 7.68 Mcps TDD Not Present (Default all) Size1 null (ASC#6) TDD 7.68 Mcps TDD Not Present (Default all) Size1 null 0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) 6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) 7.68 Mcps TDD 0 Frame Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Not Present (MD "1") Not present (empty) 7.68 Mcps TDD 1 Reference clause 6.10 "Parameter Set" 7.68 Mcps TDD Type 1 Default midamble 4 Not Present 7.68 Mcps TDD (This IE is repeated for Code number for PCH and FACH) (This IE is repeated for TFC number for PCH and FACH) Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 "Parameter Set" Not Present (PCH) Common transport channels

- Dynamic Transport format information - RLC Size	Reference clause 6.10 "Parameter Set"
- Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - PICH info - CHOICE mode - CHOICE TDD option - Timeslot number - Midamble shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - Midamble Shift - Channelisation code - Repetition period/length - Offset - Paging indicator length - N_{GAP} - N_{PCH} - MCCH configuration information	Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Reference clause 6.10 "Parameter Set" ALL Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" 12 (for PCH) FALSE (FACH) Common transport channels Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Reference clause 6.10 "Parameter Set" ALL Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" 13 (for FACH) FALSE (FACH) Common transport channels Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD ALL Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" 14 (for FACH) FALSE TDD 7.68 Mcps TDD 0 Type 1 Default midamble 8 Not Present 32/32 64/2 0 4 4 2 Not Present Not Present Not Present Not Present 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	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	-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)

- 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/ (1/8)
- Alpha	-10
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD /REL-4/ Sync Case 2
- CHOICE SyncCase	
- 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/ 14
- Timeslot number	
- 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
- Transport channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels

<ul style="list-style-type: none"> - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information 	Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Not Present Configured
<ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - PRACH partitioning - Access Service Class <ul style="list-style-type: none"> - ASC Settings - CHOICE mode - CHOICE TDD option <ul style="list-style-type: none"> - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option <ul style="list-style-type: none"> - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option <ul style="list-style-type: none"> - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option <ul style="list-style-type: none"> - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option <ul style="list-style-type: none"> - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option <ul style="list-style-type: none"> - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode <ul style="list-style-type: none"> - CHOICE TDD option <ul style="list-style-type: none"> - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode <ul style="list-style-type: none"> - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - Persistence scaling factors - Access Service Class <ul style="list-style-type: none"> - Persistence scaling factor - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information 	

<ul style="list-style-type: none"> - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period 	<p>TDD 0</p> <p>Not Present (MD "Frame") Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Not Present (MD "1")</p>
<ul style="list-style-type: none"> - Repetition length - Individual timeslot info - CHOICE TDD option - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - Midamble Shift - Code List - Channelisation Code - TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List 	<p>Not present</p> <p>3.84 Mcps TDD /REL-4/ 1</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Type 1 Default midamble 4</p> <p>Not Present</p> <p>Reference clause 6.10 "Parameter Set" (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. Reference clause 6.10 "Parameter Set" Not Present</p> <p>(PCH) Common transport channels</p> <p>Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Reference clause 6.10 "Parameter Set" ALL</p> <p>Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" 12 (for PCH) FALSE (FACH) Common transport channels</p> <p>Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Reference clause 6.10 "Parameter Set" ALL</p> <p>Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" 13 (for FACH) (FACH) Common transport channels (This IE is repeated for TFI number.) Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set"</p>

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

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

- PICH Power offset - CHOICE Mode - PUSCH system information - PDSCH system information - TDD open loop power control - Primary CCPCH Tx Power - CHOICE TDD option - Primary CCPCH info - PRACH system information list - Secondary CCPCH system information - CBS DRX Level 1 information	-5 dB TDD Not Present Not Present 30 dBm 1.28 Mcps TDD /REL-4/ Not Present Not Present Not Present Not Present Not Present
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Contents of System Information Block type 6 in connected mode (7.68 Mcps TDD)

- PICH Power offset - CHOICE Mode - PUSCH system information - PDSCH system information - TDD open loop power control - Primary CCPCH info - PRACH system information list - Secondary CCPCH system information - CBS DRX Level 1 information	-5 dB TDD Not Present Not Present Not present Not Present Not Present Not Present Not Present
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Contents of System Information Block type 7 (FDD)

CHOICE Mode - UL interference - PRACHs listed in system information block type5 - Dynamic persistence level - PRACHs listed in system information block type6 - Expiration Time Factor	FDD -100 dBm 2 Not Present Not Present - use default value of 1
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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 informationBlock type 11(FDD) for cell 21 to 28

- SIB12 indicator	A1, A2, A3	TRUE
- FACH measurement occasion info		Not Present
- Measurement control system information		Not used
- Use of HCS		CPICH RSCP
- Cell selection and reselection quality measure		
- Intra-frequency measurement system information	A1, A2, A3	
- Intra-frequency measurement identity		Not Present
- Intra-frequency cell info list		Absence of this IE is equivalent to default value 1
- CHOICE intra-frequency cell removal		
- New intra-frequency cells		Not present
- Intra-frequency cell id		(This IE shall be ignored by the UE for SIB11)
- Cell info		1
- Cell individual offset		
- Reference time difference to cell		Not present
- Read SFN indicator		Absence of this IE is equivalent to default value 0 dB
- CHOICE mode		Not Present
- Primary CPICH info		FALSE
- Primary scrambling code		FDD
- Primary CPICH TX power		Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4
- TX Diversity indicator		Not Present
- Cell Selection and Re-selection info		FALSE
- Intra-frequency cell id		Not Present
- Cell info		(The IE shall be absent as this is the serving cell)
- Cell individual offset		2
- Reference time difference to cell		Not present
- Read SFN indicator		Absence of this IE is equivalent to default value 0dB
- CHOICE mode		Not present
- Primary CPICH info		TRUE
- Primary scrambling code		FDD
- Primary CPICH TX power		Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4
- TX Diversity indicator		Not Present

		<p>- Cell Selection and Re-selection info</p> <p>- Intra-frequency cell id</p> <p>- Cell info</p>	Not present 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.
	A1, A3	<p>- Intra-frequency cell id</p> <p>- Cell info</p>	3 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
	A1, A3	<p>- Intra-frequency cell id</p> <p>- Cell info</p>	7 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 Note that this cell can also be configured as an inter-frequency cell on f3.
	A3	<p>- Intra-frequency cell id</p> <p>- Cell info</p>	8 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 Note that this cell can also be configured as an inter-frequency cell on f3.
	A1, A2, A3 A1, A2, A3	<p>- Cells for measurement</p> <p>- Intra-frequency measurement quantity</p> <p>- Filter coefficient</p> <p>- CHOICE mode</p> <p>- Measurement quantity</p> <p>- Intra-frequency reporting quantity for RACH Reporting</p> <p>- Maximum number of reported cells on RACH</p> <p>- Reporting information for state CELL_DCH</p> <p>- Intra-frequency reporting quantity</p> <p>- Reporting quantities for active set cells</p> <p>- Cell synchronization information reporting indicator</p> <ul style="list-style-type: none"> - Cell identity reporting indicator - CHOICE mode - CPICH Ec/N0 reporting indicator - CPICH RSCP reporting indicator - Pathloss reporting indicator <p>- Reporting quantities for monitored set cells</p> <p>- Cell synchronization information reporting indicator</p> <ul style="list-style-type: none"> - Cell identity reporting indicator - CHOICE mode - CPICH Ec/N0 reporting indicator - CPICH RSCP reporting indicator - Pathloss reporting indicator <p>- Reporting quantities for detected set cells</p> <p>- Measurement reporting mode</p> <p>- Measurement Report Transfer Mode</p> <p>- Periodic Reporting/Event Trigger Reporting Mode</p> <p>- CHOICE report criteria</p> <p>- Intra-frequency measurement reporting criteria</p> <p>- Parameters required for each event</p> <p>- Intra-frequency event identity</p>	<p>Not Present</p> <p>Not present Absence of this IE is equivalent to the default value 0 FDD CPICH RSCP Not Present</p> <p>Not Present</p> <p>FALSE</p> <p>TRUE FDD FALSE TRUE FALSE</p> <p>TRUE</p> <p>TRUE FDD FALSE TRUE FALSE Not Present</p> <p>Acknowledged mode RLC Event trigger Intra-frequency measurement reporting criteria</p> <p>3 kinds 1a</p>

<ul style="list-style-type: none"> - Triggering condition 1 - Triggering condition 2 - Reporting Range Constant - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range Constant - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status 	<ul style="list-style-type: none"> Not Present Monitored set cells 10 (5dB) Not Present 1(0.1): 34.123 test cases 10(1.0): 34.121 test cases 0 (0.0) Not Present 2 Not Present 640 4 4 000 Report cell within active set and/or monitored set cells on used frequency 3 1b Active set cells Not Present 10 (5dB) Not Present 1 (0.1): 34.123 test cases 10(1.0): 34.121 test cases 0 (0.0) Not Present Not Present Not Present 640 Not Present Not Present
<ul style="list-style-type: none"> - CHOICE reported cell - Maximum number of reported cells - Intra-frequency event identity - Triggering condition 1 - Triggering condition 2 - Reporting Range Constant - Cells forbidden to affect Reporting range - W - Hysteresis - Threshold Used Frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cell - Maximum number of reported cells <p>Inter-frequency measurement system information</p> <ul style="list-style-type: none"> - Inter-frequency cell info list - CHOICE Inter-frequency cell removal - New inter-frequency cells - Inter frequency cell id - Frequency info - CHOICE mode - UARFCN uplink(Nu) - UARFCN downlink(Nd) - Cell info 	<ul style="list-style-type: none"> Report cell within active set and/or monitored set cells on used frequency 3 1c Not Present Not Present Not Present Not Present Not Present 0 (0.0) Not Present Not Present 3 640 4 4 000 Report cell within active set and/or monitored set cells on used frequency 3 Not present (This IE shall be ignored by the UE for SIB11) 4 FDD Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] Reference to table 6.1.2 for Cell 4 <p>A1, A2</p>

<ul style="list-style-type: none"> - Cell individual offset - Reference time difference to cell - Read SFN indicator - CHOICE mode - Primary CPICH info - Primary scrambling code - Primary CPICH Tx power - TX Diversity Indicator - Cell Selection and Re-selection Info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Cell for measurement <p>- Inter-RAT measurement system information</p> <p>- Inter-RAT measurement system information</p> <p>- Inter-RAT cell info list</p> <p>- CHOICE Inter-RAT cell removal</p>	A1, A3 A2	Not present Absence of this IE is equivalent to default value 0 dB
		Not present FALSE
		FDD
		Refer to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4
		Not present FALSE
		Not present (same values as for serving cell applies)
		5
		Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.
		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
		6
		Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.
		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.6 (FDD)" in clause 6.1.4
		Not present Not Present
		Not Present (This IE shall be ignored by the UE for SIB11)
<ul style="list-style-type: none"> - New inter-RAT cells - Inter-RAT cell id - CHOICE Radio Access Technology - GSM - Cell individual offset - Cell selection and re-selection info - BSIC - Base transceiver Station Identity Code (BSIC) - Band indicator - BCCH ARFCN - Inter-RAT cell id - CHOICE Radio Access Technology - GSM - Cell individual offset - Cell selection and re-selection info - BSIC - Base transceiver Station Identity Code (BSIC) - Band indicator - BCCH ARFCN - Cell for measurement <p>- Traffic volume measurement system information</p>	A1, A2, A3	9 GSM
		0 Not Present
		Reference to table 6.1.10 for Cell 9 According to PICS/PIXIT Reference to table 6.1.10 for Cell 9
		10 GSM
		0 Not Present
		Reference to table 6.1.10 for Cell 10 According to PICS/PIXITs Reference to table 6.1.10 for Cell 10
		Not present Not Present

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)

Contents of System Information Block type 11 (3.84 Mcps, 1.28 Mcps and 7.68 Mcps TDD)

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 (TDD) for cell 2 to 8.

<ul style="list-style-type: none"> - SIB 12 Indicator - FACH measurement occasion info - Measurement control system information - Use of HCS - Cell selection and reselection quality measureCell - Intra-frequency measurement system information - Intra-frequency measurement identity - Intra-frequency cell info list - CHOICE intra-frequency cell removal - New intra-frequency cells - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE mode - Primary CCPCH info - Cell parameters ID - Primary CCPCH TX power - Timeslot list - CHOICE TDD option <ul style="list-style-type: none"> - 3.84 Mcps TDD - Timeslot number - Burst type - 1.28 Mcps TDD - Timeslot number - Cell Selection and Re-selection info 	A1, A2 A1, A2	TRUE Not Present Not used CPICH RSCP Not Present Absence of this IE is equivalent to default value 1 Not present (This IE shall be ignored by the UE for SIB11) 1 Not present Absence of this IE is equivalent to default value 0dB Not Present FALSE TDD Reference clause 6.1.4 Default settings for cell Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present (The IE shall be absent as this is the serving cell)
<ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE mode - Primary CCPCH info - Cell parameters ID - Primary CCPCH TX power - Timeslot list - CHOICE TDD option <ul style="list-style-type: none"> - 3.84 Mcps TDD - Timeslot number - Burst type - 1.28 Mcps TDD - Timeslot number - Cell Selection and Re-selection info - Intra-frequency cell id - Cell info 		2 Not present Absence of this IE is equivalent to default value 0dB Not Present FALSE TDD Refer to clause titled "Default setting for cell No.2 (TDD)" in clause 6.1.4 Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present 3 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 7 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 8
<ul style="list-style-type: none"> - Intra-frequency cell id - Cell info 		
<ul style="list-style-type: none"> - Intra-frequency cell id 		

- Cell info		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
- Cell for measurement - Intra-frequency measurement quantity - Filter coefficient	A1, A2 A1, A2	Not Present Not present Absence of this IE is equivalent to the default value 0 TDD P-CCPCH RSCP Not Present Not Present TRUE TRUE TDD FALSE FALSE TRUE FALSE FALSE TRUE TDD FALSE FALSE TRUE FALSE Not Present Acknowledged mode RLC Event trigger
- CHOICE mode - Measurement quantity list - Measurement quantity - Intra-frequency reporting quantity for RACH Reporting - Maximum number of reported cells on RACH - Reporting information for state CELL_DCH - Intra-frequency reporting quantity - Reporting quantities for active set cells - Cell synchronization information reporting indicator - Cell identity reporting indicator - CHOICE mode - Timeslot ISCP reporting indicator - Proposed TSGN reporting required - P-CCPCH RSCP reporting indicator - Pathloss reporting indicator - Reporting quantities for monitored set cells - Cell synchronization information reporting indicator - Cell identity reporting indicator - CHOICE mode - Timeslot ISCP reporting indicator - Proposed TSGN reporting required - P-CCPCH RSCP reporting indicator - Pathloss reporting indicator - Reporting quantities for detected set cells - Measurement reporting mode - Measurement Report Transfer Mode - Periodical Reporting / Event Trigger Reporting Mode - CHOICE report criteria - Intra-frequency measurement reporting criteria - Parameters required for each event - Intra-frequency event identity - Triggering condition1 - Triggering condition2 - Reporting Range Constant - cells forbidden to affect reporting range - W(optional in case of 1a,1b) - Hysteresis - Threshold used frequency - Reporting deactivation threshold - Replacement activation threshold - Time to trigger - Amount of reporting - Reporting interval - Reporting cell status - CHOICE reported cells - Maximum number of reported cells - Inter-frequency measurement system information - Inter-frequency cell info list - CHOICE Inter-frequency cell removal - New inter-frequency cells - Inter frequency cell id - Frequency info - CHOICE mode - UARFCN (Nt)	A1, A2 A1, A2	
		1g Not Present Not Present Not Present Not Present Not Present 0.0 Not Present 3 Not Present 640 4 4000 Report cell within active set and/or monitored cells on used frequency 3 Not present (This IE shall be ignored by the UE for SIB11) 4 TDD Reference to table 6.1.7 for Cell 4

- Cell info - Cell individual offset - Reference time difference to cell		Not present Absence of this IE is equivalent to default value 0dB Not present
- Read SFN indicator - CHOICE mode - Primary CCPCH info - Primary CCPCH Tx power - TX Diversity Indicator - Cell Selection and Re-selection Info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Cell for measurement		FALSE TDD Refer to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4 Not present FALSE Not present (same values as for serving cell applies) 5 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. 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 6 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. 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 Not present
- Inter-RAT measurement system information - Inter-RAT measurement system information - Inter-RAT cell info list - CHOICE <i>Inter-RAT cell removal</i> - New inter-RAT cells - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM - Cell individual offset - Cell selection and re-selection info - BSIC - Base transceiver Station Identity Code (BSIC) - Band indicator - BCCH ARFCN - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM - Cell individual offset - Cell selection and re-selection info - BSIC - Base transceiver Station Identity Code (BSIC) - Band indicator - BCCH ARFCN - Cell for measurement - Traffic volume measurement system information	A1 A2	Not Present (This IE shall be ignored by the UE for SIB11) 9 GSM 0 Not Present Reference to table 6.1.10 for Cell 9 According to PICS/PIXIT Reference to table 6.1.10 for Cell 9 10 GSM 0 Not Present Reference to table 6.1.10 for Cell 10 According to PICS/PIXITs Reference to table 6.1.10 for Cell 10 Not present Not Present
	A1, A2	

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.

<ul style="list-style-type: none"> - FACH measurement occasion info - Measurement control system information - Use of HCS - Cell selection and reselection quality measure - Intra-frequency measurement system information - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information 	<ul style="list-style-type: none"> Not Present Not used CPICH RSCP Not Present Not Present Not Present Not Present 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.

<ul style="list-style-type: none"> - FACH measurement occasion info - Measurement control system information - Use of HCS - Cell selection and reselection quality measure - Intra-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information 	<ul style="list-style-type: none"> Not Present Not used CPICH RSCP Not Present Not Present Not Present Not Present
---	---

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

<ul style="list-style-type: none"> - CN Domain system information list - CN Domain system information - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - NAS (ANSI-41) system information - CN domain specific DRX cycle length coefficient - CN Domain system information - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - NAS (ANSI-41) system information - CN domain specific DRX cycle length coefficient - UE timers and constants in idle mode - T300 - N300 - T312 - N312 - Capability update requirement - UE radio access FDD capability update requirement - UE radio access TDD capability update requirement - System specific capability update requirement list 	<p><i>For Packet-Switched domain</i></p> <p>PS</p> <p>ANSI-41</p> <p>T.B.D</p> <p>7</p> <p><i>For Circuit-Switched domain</i></p> <p>CS</p> <p>ANSI-41</p> <p>T.B.D</p> <p>7</p> <p>400 milliseconds</p> <p>3</p> <p>10 seconds</p> <p>200</p> <p>TRUE</p> <p>FALSE</p> <p>Not Present</p>
--	--

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	Not Present
- RLC logical channel mapping indicator	1
- Number of RLC logical channels	DCH
- Uplink transport channel type	5
- UL Transport channel identity	1
- Logical channel identity	Configured
- CHOICE RLC size list	1
- MAC logical channel priority	
- Downlink RLC logical channel info	1
- Number of RLC logical channels	DCH
- Downlink transport channel type	10
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	1
- Logical channel identity	
- 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	Max DAT retransmissions
- SDU discard mode	4
- MAX_DAT	100
- Timer_MRW	4
- MaxMRW	
- 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	Not Present
- RLC logical channel mapping indicator	1
- Number of RLC logical channels	DCH
- Uplink transport channel type	5
- UL Transport channel identity	2
- Logical channel identity	Configured
- CHOICE RLC size list	2
- MAC logical channel priority	
- Downlink RLC logical channel info	1
- Number of RLC logical channels	DCH
- Downlink transport channel type	

- 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	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4.1.4.1 Parameter Set.
- CHOICE TFCS Size	This IE is repeated for TFC numbers and reference to clause 6.10.2.4.1.4.1 Parameter Set
- CTFC information	
- Power offset information	Signalled Gain Factor
- CHOICE Gain Factors	FDD
- CHOICE mode	0
- Gain factor β_c	0
- Gain factor β_d	0
- Reference TFC ID	0 dB
- Power offset Pp-m	0
- 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	Dedicated transport channels
- CHOICE Transport channel type	Reference to clause 6.10.2.4.1.4.1 Parameter Set (This IE is repeated for TFI number.)
- Dynamic Transport format information	Not Present
- RLC Size	Reference to clause 6.10.2.4.1.4.1 Parameter Set
- Number of TBs and TTI List	All
- Transmission Time Interval	Reference to clause 6.10.2.4.1.4.1 Parameter Set
- Number of Transport blocks	
- CHOICE Logical channel list	
- Semi-static Transport Format information	Reference to clause 6.10.2.4.1.4.1 Parameter Set
- Transmission time interval	Reference to clause 6.10.2.4.1.4.1 Parameter Set
- Type of channel coding	

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

- DCH quality target	0
- BLER Quality value	DCH
- Downlink transport channel type	8
- DL Transport channel identity	Same as UL
- CHOICE DL parameters	
- 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

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			
- Available Signature		FDD '0000 0000 1111 1111'B	

<ul style="list-style-type: none"> - Available SF - Preamble scrambling code number - Puncturing Limit - Available Sub Channel number - Transport channel Identity - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Additional RACH TFS for CCCH - RLC size - Number of Transport blocks - RACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE Gain Factors - Reference TFC ID - CHOICE Mode - Power offset Pp-m - CTFC information - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE Mode 	64 0 1.00 '1111 1111 1111'B 15 Common transport channels 168 1 FDD Configured 360 1 FDD Configured 20 ms Convolutional 1/2 150 16 240 1 Normal Complete reconfiguration 2 bit 0 Computed Gain Factor 0 FDD 0 dB 1 Signalled Gain Factor FDD 11 15 0 FDD 0 dB	Rel6
<ul style="list-style-type: none"> - Additional RACH TFCS for CCCH - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE Mode - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number 	0 dB Signalled Gain Factor FDD 11 15 0 FDD 0 dB Not Present FDD 0 (ASC#1) 7 (ASC#1) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.	Rel-6

<ul style="list-style-type: none"> - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number <ul style="list-style-type: none"> - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number <ul style="list-style-type: none"> - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number <ul style="list-style-type: none"> - Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code 	<p>Not Present</p> <p>FDD</p> <p>0 (ASC#3)</p> <p>7 (ASC#3)</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> <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> <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> <p>Not Present</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>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 2 SCCPCHs)</p> <p>(SCCPCH for standalone PCH)</p> <p>FDD</p> <p>Not Present</p> <p>FALSE</p> <p>128</p> <p>4</p> <p>FALSE</p> <p>FALSE</p> <p>Fixed</p> <p>30 (7680 Chip)</p>	
<ul style="list-style-type: none"> - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS 	<p>FALSE</p> <p>128</p> <p>4</p> <p>FALSE</p> <p>FALSE</p> <p>Fixed</p> <p>30 (7680 Chip)</p>	

<ul style="list-style-type: none"> - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information 	Normal		
	Complete reconfiguration		
<ul style="list-style-type: none"> - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - PICH info - CHOICE mode - Channelisation code - Number of PI per frame - STTD indicator - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset 	2 bit		
	0		
	Not Present		
	1		
	Not Present		
	(PCH)		
	Common transport channels		
	240		
	0		
	1		
	FDD		
	ALL		
	10 ms		
	Convolutional		
	1/2		
	230		
	16 bit		
	12 (for PCH)		
	FALSE		
	FDD		
	2		
	18		
	FALSE		
	(SCCPCH including two FACHs)		
	FDD		
	Not Present		
	FALSE		
	64		
	1		
	FALSE		
	TRUE (default value)		
	Flexible (default value)		
	Not Present		
	Absence of this IE is equivalent to default value 0		
	Normal		
	Complete reconfiguration		
	4 bit		
	0		
	Not Present		
	1		
	Not Present		
	2		
	Not Present		
	3		
	Not Present		
	4		
	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 - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - CBS DRX Level 1 information - Frequency Band Indicator	A1	2 FDD ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels 360 0 1 FDD ALL 10 ms Turbo 130 16bit 14 (for FACH) FALSE Not Present Not Present Not Present A2 Not Present Not Present A3 Extension indicator FDD Band under test
- 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 - Frequency Band Indicator 2 - Frequency Band Indicator - Frequency Band Indicator 2	A1 A2	FDD Band under test Not Present Extension indicator 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 - CHOICE Mode - TDD open loop power control - PUSCH system information - PDSCH system information - TDD open loop power control - Primary CCPCH Tx Power - CHOICE TDD option	FALSE TDD Not Present Not Present 30 dbm 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 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	TDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	TDD
- Gain factor β_c	11
- Gain factor β_d	15
- Reference TFC ID	0
- CHOICE Mode	TDD
- Power offset Pp-m	0 dB

- PRACH partitioning	
- Access Service Class	Not Present
- ASC Setting	TDD
- ASC Setting	3.84 Mcps TDD
- CHOICE mode	Not Present (Default all)
- CHOICE TDD option	Size1
- Available Channelisation codes indices	null
- CHOICE subchannel size	Not Present
- Available Subchannels	Not Present
- ASC Setting	TDD
- ASC Setting	3.84 Mcps TDD
- CHOICE mode	Not Present (Default all)
- CHOICE TDD option	Size1
- Available Channelisation codes indices	null
- CHOICE subchannel size	Not Present
- Available Subchannels	Not Present
- ASC Setting	TDD
- ASC Setting	3.84 Mcps TDD
- CHOICE mode	Not Present
- CHOICE TDD option	TDD
- Available Channelisation codes indices	3.84 Mcps TDD
- CHOICE subchannel size	Not Present (Default all)
- Available Subchannels	Size1
- ASC Setting	null
- ASC Setting	Not Present
- CHOICE mode	Not Present
- CHOICE TDD option	TDD
- Available Channelisation codes indices	3.84 Mcps TDD
- CHOICE subchannel size	Not Present (Default all)
- Available Subchannels	Size1
- ASC Setting	null
- ASC Setting	Not Present
- 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	TDD
- CHOICE mode	3.84 Mcps TDD
- CHOICE TDD option	Not Present (Default all)
- Available Channelisation codes indices	Size1
- CHOICE subchannel size	null
- Available Subchannels	Not Present
- Persistence scaling factor	TDD
- 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	Complete reconfiguration
- CHOICE TFCS representation	
- 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 - CHOICE Transport channel type - Dynamic Transport format information - RLC Size	(PCH) Common transport channels 240
- Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - PICH info - CHOICE mode - CHOICE TDD option - Timeslot number - Midamble shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - Midamble Shift - Channelisation code - Repetition period/length - Offset - Paging indicator length - NGAP - NPCH - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset	0 1 TDD ALL 10 ms Convolutional 1/2 230 16 bit 12 (for PCH) FALSE TDD 3.84 Mcps TDD 0 4 Type 1 Default midamble 8 Not Present 16/16 64/2 0 4 4 2 (SCCPCH including two FACHs) TDD Not Present FALSE 64 1 FALSE TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0
- TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List	Normal Complete reconfiguration 4 bit 0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168

- 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)

<FFS>

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/ (1/8)
- Alpha	-10
- 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/ Sync Case 2
- CHOICE SyncCase	0
- Timeslot	
- 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/ 14
- Timeslot number	
- PRACH Channelisation Code List	
- CHOICE SF	SF8
- Channelisation Code List	
- Channelisation Code	8/1

- Channelisation Code - Channelisation Code - Channelisation Code - PRACH Midamble - PNBSCH allocation - Transport channel Identity - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE Gain Factors - Reference TFC ID - CHOICE Mode - Power offset Pp-m - CTFC information - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE Mode - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Setting - ASC Setting - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Setting - ASC Setting - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size	8/2 8/3 8/4 Direct Not Present /REL-4/ 15 Common transport channels 168 1 TDD Configured 360 1 TDD Configured 20 ms Convolutional 1/2 150 16 Normal Complete reconfiguration 2 bit 0 Computed Gain Factor 0 TDD 0 dB 1 Signalled Gain Factor TDD 11 15 0 TDD 0 dB Not Present TDD 3.84 Mcps TDD Not Present (Default all) Size1 null Not Present TDD 3.84 Mcps TDD Not Present (Default all) Size1
- 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 - Timeslot number - Midamble shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - Midamble Shift - Channelisation code - Repetition period/length - Offset - Paging indicator length - NGAP - NPCH - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type	3.84 Mcps TDD 0 4 Type 1 Default midamble 8 Not Present 16/16 64/2 0 4 4 2 (SCCPCH including two FACHs) TDD Not Present FALSE 64 1 FALSE TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 Normal Complete reconfiguration 4 bit 0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 TDD ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels
- Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks	360 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			
- 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	

<ul style="list-style-type: none"> - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - RLC size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 		Common transport channels	Rel6
		168	
		1	
		FDD	
		Configured	
		360	
		1	
		FDD	
		Configured	
		20 ms	
<ul style="list-style-type: none"> - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Additional RACH TFS for CCCH - RLC size - Number of Transport blocks - RACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - CTFC information - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE Mode - Power offset Pp-m - Additional RACH TFCS for CCCH - Power offset information - CHOICE Gain Factors - CHOICE mode - Gain factor β_d - Gain factor β_c - Reference TFC ID - CHOICE Mode - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number 		Convolutional	Rel-6
		1/2	
		150	
		16	
		240	
		1	
		Normal	
		Complete reconfiguration	
		2 bit	
		0	
<ul style="list-style-type: none"> - CHOICE Gain Factor - Reference TFC ID - FDD - 0 dB - 1 - Signalled Gain Factor - FDD - 11 - 15 - 0 - FDD - 0 dB - Signalled Gain Factor - FDD - 15 - 11 - 0 - FDD - 0 dB - Not Present - FDD - 0 (ASC#1) - 7 (ASC#1) - '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. - Not Present - FDD - 0 (ASC#3) - 7 (ASC#3) - '1111'B 		Computed Gain Factor	Rel-6
		0	
		FDD	
		0 dB	
		1	
		Signalled Gain Factor	
		FDD	
		11	
		15	
		0	
<ul style="list-style-type: none"> - FDD - 0 dB - Not Present - FDD - 0 (ASC#1) - 7 (ASC#1) - '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. - Not Present - FDD - 0 (ASC#3) - 7 (ASC#3) - '1111'B 		FDD	Rel-6
		15	
		11	
		0	
		FDD	
		0 dB	
		Not Present	
		FDD	
		0 (ASC#1)	
		7 (ASC#1)	
<ul style="list-style-type: none"> - '1111'B - The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. - Not Present - FDD - 0 (ASC#3) - 7 (ASC#3) - '1111'B 		'1111'B	Rel-6

		The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. Not Present	
- ASC Setting - ASC Setting - CHOICE mode	FDD		
- Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number	0 (ASC#5) 7 (ASC#5) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. Not Present		
- ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number	FDD 0 (ASC#7) 7 (ASC#7) '1111'B The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.		
- Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information	0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) 0.9 (for ASC#7) 6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) FDD 31 -10 3dB 4 2 3 slot 10 slot 3 FALSE 0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 (7680 Chip) Normal Complete reconfiguration 2 bit 0		

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

- Transport channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks		13 (for FACH) FALSE (FACH) Common transport channels 168 0 1	
- CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - CBS DRX Level 1 information - Period of CTCH allocation (N) - CBS frame offset (K) - Frequency Band Indicator	A1	FDD ALL 10 ms Convolutional 1/3 220 16bit 14 (for FACH) TRUE 2 0 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 - Frequency Band Indicator 2 - Frequency Band Indicator - Frequency Band Indicator 2	A1	FDD Band under test
	A2	Not Present Extension indicator 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 - CHOICE Mode - AICH Power offset - Primary CCPCH info - PRACH system information list - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence	-5 dB FDD -5 dB Not present Not Present (SCCPCH including two FACHs) FDD Not Present FALSE 64 1 FALSE
---	--

- TFCI existence	TRUE (default value)
- Fixed or Flexible position	Flexible (default value)
- Timing offset	90 (23040 Chip)
- TFCS	Normal
- CHOICE TFCI signalling	Complete reconfiguration
- TFCI Field 1 information	
- CHOICE TFCS representation	
- 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		Common transport channels	
- CHOICE Transport channel type			
- Dynamic Transport format information			
- RLC size		168	

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

<ul style="list-style-type: none"> - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number 	<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>	
<ul style="list-style-type: none"> - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number 	<p>Not Present</p> <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"> - Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number 	<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"> - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - Power offset information - CTFC information - Power offset information 	<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>	

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

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

- Number of Transport blocks - Number of Transport blocks - CHOICE Mode - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport channel Identity - CTCH indicator - CBS DRX Level 1 information - Frequency Band Indicator	A1	0 1 FDD ALL 10 ms Turbo 130 16bit 17 (for FACH) FALSE Not Present 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 - Frequency Band Indicator 2 - Frequency Band Indicator - Frequency Band Indicator 2	A1 A2	FDD Band under test Not Present Extension indicator FDD Band under test
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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 Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 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)

- Intra-frequency measurement system information	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
		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
		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
		Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b
- Intra-frequency cell id	A1, A3	8

- Cell info - Intra-frequency cell id - Cell info 	A3	Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b 11 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
- Inter-frequency measurement system information - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info 	A1, A2	4 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b 5 Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b 6 Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b
- Inter-RAT cell info list - New inter-RAT cells - Inter-RAT cell id - CHOICE Radio Access Technology - GSM - Inter-RAT cell id - CHOICE Radio Access Technology - GSM 	A2	9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b 10 GSM Same content as specified for inter-RAT cell id=10 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)

Default settings for cell No.2 (TDD)

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 4
---	---

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

- Intra-frequency measurement system information

.... - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency measurement system information - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info	2 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 1 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 3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b 7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b 8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b 4 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b 5 Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b 6 Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b
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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 Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 200
--	---

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

- Intra-frequency measurement system information - New intra-frequency cells	A1, A2, A3	
---	------------	--

- Intra-frequency cell id - Cell info		3 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
- Intra-frequency cell id - Cell info		1 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
- Intra-frequency cell id - Cell info	A1, A3	2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b
- Intra-frequency cell id - Cell info	A3	7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b
- Intra-frequency cell id - Cell info		8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b
- Intra-frequency cell id - Cell info		11 Same content as specified for Intra-frequency cell id=11 in SIB11 for Cell 1 in clause 6.1.0b
.....		
- Inter-frequency measurement system information	A1, A2	
.....		
- New inter-frequency cells - Inter frequency cell id - Frequency info		4 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 - Frequency info		5 Not Present 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 - Frequency info		6 Not Present 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
.....		
- Inter-RAT cell info list	A2	
.....		
- New inter-RAT cells - Inter-RAT cell id - CHOICE Radio Access Technology - GSM		9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b
- Inter-RAT cell id - CHOICE Radio Access Technology - GSM		10 GSM Same content as specified for inter-RAT cell id=10 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)

Default settings for cell No.3 (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	8

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

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	3
- Cell info	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
- 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
....	
- Inter-frequency measurement system information	
....	
- 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	Not Present 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 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 0100B
URA identity	0000 0000 0000 0010B

Default settings for cell No.4 (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	250

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

- Intra-frequency measurement system information	A1, A2	
....		
- New intra-frequency cells		
- Intra-frequency cell id		
- Cell info		
		4
		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.4 (FDD)" in clause 6.1.4
		5
		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
		6
		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.6 (FDD)" in clause 6.1.4
....		
- Inter-frequency measurement system information	A1, A2	
....		
- New inter-frequency cells		
- Inter-frequency cell id		
- Frequency info		
- UARFCN uplink(Nu)		
		1
		Not present
		Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
		Reference to table 6.1.2 for Cell 1
		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
		2
		Not Present
		Absence of this IE is equivalent to value of the previous "frequency info" in the list.
		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
		3
		Not Present
		Absence of this IE is equivalent to value of the previous "frequency info" in the list.

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

Default settings for cell No.4 (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	

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

<p>- Intra-frequency measurement system information</p> <p>....</p> <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Intra-frequency cell id - Cell info 	<p>4</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.4 (TDD)" 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 Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4</p>
---	--

- 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	1
- Inter-frequency cell id	Reference to table 6.1.7 for Cell 1
- 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.1 (TDD)" in clause 6.1.4
- UARFCN downlink(Nt)	2
- 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.1 (TDD)" in clause 6.1.4
- Cell info	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.2 (TDD)" in clause 6.1.4
- Inter-frequency cell id	7
- 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	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.7 (TDD)" in clause 6.1.4
- Cell info	9
- 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)

- Intra-frequency measurement system information	A1, A2	
....		
- New intra-frequency cells		5
- 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.5 (FDD)" in clause 6.1.4
- 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 Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" 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 Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4
- Cell info		
....		
- Inter-frequency measurement system information	A1, A2	
....		
- New inter-frequency cells		1
- Inter-frequency cell id		Not present
- Frequency info		Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- UARFCN uplink(Nu)		Reference to table 6.1.2 for Cell 1
		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
- UARFCN downlink(Nd)		2
- Cell info		Not Present
		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 Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4
- Frequency info		3
- Cell info		Not Present
		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 Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4
- Frequency info		4
- Cell info		Not Present
		Absence of this IE is equivalent to value of the previous "frequency info" in the list.
- Inter-frequency cell id	A1	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
- Frequency info		5
- Cell info		Not Present
		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 Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4
		6

<ul style="list-style-type: none"> - Frequency info - Cell info - Inter-RAT cell info list - New inter-RAT cells - Inter-RAT cell id - CHOICE Radio Access Technology - GSM - Inter-RAT cell id - CHOICE Radio Access Technology - GSM 	A2	<p>Not Present 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 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>10 GSM 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)

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

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

- Intra-frequency measurement system information <ul style="list-style-type: none"> - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Inter-frequency measurement system information <ul style="list-style-type: none"> - New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN downlink(Nt) 	5 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 4 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 6 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 1 Reference to table 6.1.7 for Cell 1
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- 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 - Frequency info	Not Present 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 - Frequency info	Not Present 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 - Frequency info	Not Present 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 - Frequency info	Not Present 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 Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 350
--	---

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

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

<ul style="list-style-type: none"> - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Inter-frequency measurement system information - New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN uplink(Nu) - UARFCN downlink(Nd) - Cell info - Inter-frequency cell id - Frequency info - Cell info - Inter-frequency cell id - Frequency info - Cell info - Inter-frequency cell id - Frequency info - Cell info - Inter-frequency cell id - Frequency info 	<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>A1, A2</p> <p>1</p> <p>Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] 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 Absence of this IE is equivalent to value of the previous "frequency info" in the list. 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 Absence of this IE is equivalent to value of the previous "frequency info" in the list. 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 Absence of this IE is equivalent to value of the previous "frequency info" in the list. 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 Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p>
--	---

- Cell info - Inter-RAT cell info list - New inter-RAT cells - Inter-RAT cell id - CHOICE Radio Access Technology - GSM - Inter-RAT cell id - CHOICE Radio Access Technology - GSM	A2	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 9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b 10 GSM Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b
---	----	---

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

Default settings for cell No.6 (TDD)

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 119
---	---

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

- Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Inter-frequency measurement system information - New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN downlink(Nt) - Cell info - Inter-frequency cell id	6 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 4 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 5 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 1 Reference to table 6.1.7 for Cell 1 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
---	---

- Frequency info	Not Present 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 9
....	

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

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

- Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id	A1, A3	7 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 1
--	--------	---

- Cell info - Intra-frequency cell id - Cell info - Inter-frequency measurement system information - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info 	A3 A1	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 2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b 3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b 8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b 11 Same content as specified for Intra-frequency cell id=11 in SIB11 for Cell 1 in clause 6.1.0b 4 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b 5 Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b 6 Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b 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

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 Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 123
---	---

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

- Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id	7 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 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
.....	
- Inter-frequency measurement system information	
.....	
- 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 Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set"
	450

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

- Intra-frequency measurement system information	A1, A3	
.....		
- New intra-frequency cells - Intra-frequency cell id - Cell info	8	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
- Intra-frequency cell id	1	

- Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Inter-frequency measurement system information - New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info	A3 A1	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 2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b 3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b 7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b 11 Same content as specified for Intra-frequency cell id=11 in SIB11 for Cell 1 in clause 6.1.0b 4 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b 5 Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b 6 Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b
- Inter frequency cell id - Frequency info - Cell info		

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 Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 127
---	---

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

- Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id	8 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 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
.....	
- Inter-frequency measurement system information	
.....	
- 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	7
.....	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 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 PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 500
--	--

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

- Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info 	A3	11 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 1 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 2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b 3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b 7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b 8 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 - PLMNs of inter-frequency cells list - PLMN identity	Not Present Set to PLMN2
--	---------------------------------

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

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

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

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

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

6.1.4.2 Default Cell parameters Three PLMN in UTRAN test scenario

In this scenario three cell groups belong to three different PLMN, Cell 1, 2, 3 (for PLMN1), Cell 4, 5, 6 (for PLMN2) and Cell 7, 8 (for PLMN3) 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

<ul style="list-style-type: none"> - Idle mode PLMN identities - PLMNs of intra-frequency cells list - PLMNs of inter-frequency cells list - PLMN identity - PLMN identity - PLMN identity - PLMN identity - PLMNs of inter-RAT cells list - Connected mode PLMN identities 	<table border="0" style="width: 100%;"> <tr><td>Not Present</td></tr> <tr><td>Set to PLMN2</td></tr> <tr><td>Set to PLMN2</td></tr> <tr><td>Set to PLMN2</td></tr> <tr><td>Set to PLMN3</td></tr> <tr><td>Not present</td></tr> <tr><td>Not present</td></tr> </table>	Not Present	Set to PLMN2	Set to PLMN2	Set to PLMN2	Set to PLMN3	Not present	Not present
Not Present								
Set to PLMN2								
Set to PLMN2								
Set to PLMN2								
Set to PLMN3								
Not present								
Not present								

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

<ul style="list-style-type: none"> - Idle mode PLMN identities - PLMNs of intra-frequency cells list - PLMNs of inter-frequency cells list - PLMN identity - PLMN identity - PLMN identity - PLMN identity - PLMNs of inter-RAT cells list - Connected mode PLMN identities 	<table border="0" style="width: 100%;"> <tr><td>Not Present</td></tr> <tr><td>Set to PLMN1</td></tr> <tr><td>Set to PLMN1</td></tr> <tr><td>Set to PLMN1</td></tr> <tr><td>Set to PLMN3</td></tr> <tr><td>Not present</td></tr> <tr><td>Not present</td></tr> </table>	Not Present	Set to PLMN1	Set to PLMN1	Set to PLMN1	Set to PLMN3	Not present	Not present
Not Present								
Set to PLMN1								
Set to PLMN1								
Set to PLMN1								
Set to PLMN3								
Not present								
Not present								

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

<ul style="list-style-type: none"> - Idle mode PLMN identities - PLMNs of intra-frequency cells list - PLMNs of inter-frequency cells list - PLMN identity - PLMN identity - PLMN identity - PLMN identity - PLMNs of inter-RAT cells list - Connected mode PLMN identities 	<table border="0" style="width: 100%;"> <tr><td>Not Present</td></tr> <tr><td>Set to PLMN1</td></tr> <tr><td>Set to PLMN1</td></tr> <tr><td>Set to PLMN1</td></tr> <tr><td>Set to PLMN2</td></tr> <tr><td>Not present</td></tr> <tr><td>Not present</td></tr> </table>	Not Present	Set to PLMN1	Set to PLMN1	Set to PLMN1	Set to PLMN2	Not present	Not present
Not Present								
Set to PLMN1								
Set to PLMN1								
Set to PLMN1								
Set to PLMN2								
Not present								
Not present								

6.1.4.3 Default Cell parameters for MBMS 21 to 28 cell environnements

Cell No.21

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.21 are identical to those of cell No.1 with the following exceptions.

Cell identity	0000000000000000000000000000000010101B
---------------	--

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

Default settings for cell No.21 (FDD)

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

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

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	21
- Cell info	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
- 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
- Cell info	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
- 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	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 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
- 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 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	7

- Cell info - Intra-frequency cell id - 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.7 (FDD)" in clause 6.1.4 8 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
- Inter-frequency measurement system information	
- New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info 	24 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b 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 25 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 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 26 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 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 4 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b 5 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b 6 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 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.21 (TDD)

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

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

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	21
- Cell info	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
- 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	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
....	
- Inter-frequency measurement system information	
....	
- 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.22

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.22 are identical to those of cell No.1 with the following exceptions.

Cell identity	00000000000000000000000010110B
URA identity	0000 0000 0000 0001B

Default settings for cell No.22 (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

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

- Intra-frequency measurement system information	
....	
- 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 Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4.3
- Cell info	21
- Intra-frequency cell id	

- 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	23
- Cell info	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
- 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	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	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	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	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
.....	
- Inter-frequency measurement system information	
.....	
- 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 (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
- Inter frequency cell id	25
- 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=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
- Inter frequency cell id	26
- 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=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 Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 6
---	---

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

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	22
- Cell info	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
- 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 - Cell info	28 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 - Cell info	1 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 - Cell info	2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b
- Intra-frequency cell id - Cell info	3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b
- Intra-frequency cell id - Cell info	7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b
- Intra-frequency cell id - Cell info	8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b
.....	
- Inter-frequency measurement system information	
.....	
- New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info	24 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b 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 - Frequency info - Cell info	25 Not present 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 - Frequency info - Cell info	26 Not present 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 - Frequency info - Cell info	4 Not present Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b
- Inter frequency cell id - Frequency info - Cell info	5 Not present Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b
- Inter frequency cell id - Frequency info - Cell info	6 Not present 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	0000000000000000000000000000000010111B
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	
- Intra-frequency cell id	23
- Cell info	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
- 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
....	

- Inter-frequency measurement system information	
.....	
- 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=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
- Inter frequency cell id	25
- 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=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
- Inter frequency cell id	26
- 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=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.23 (TDD)

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 10
---	--

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

- Intra-frequency measurement system information

....	
- New intra-frequency cells	
- Intra-frequency cell id	
- Cell info	
	23
	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
- 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	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 6.1.4.3
- 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
....	
- Inter-frequency measurement system information	
....	
- New inter-frequency cells	
- Inter frequency cell id	
- Frequency info	
- Cell info	
	24
	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b
- Inter frequency cell id	
- 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
	25
	Not present
	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.24

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.24 are identical to those of cell No.1 with the following exceptions.

Cell identity	0000000000000000000000000000000011000B
URA identity	0000 0000 0000 0010B

Default settings for cell No.24 (FDD)

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set"
	270

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

- Intra-frequency measurement system information	
- New intra-frequency cells	24
- 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.24 (FDD)" in clause 6.1.4.3
- Cell info	
....	
- 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	26
- 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.26 (FDD)" in clause 6.1.4.3
- 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
- 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
.....	
- Inter-frequency measurement system information	
.....	
- New inter-frequency cells	
- Inter frequency cell id	21
- 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 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 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 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 Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6 Parameter Set Minimum supported by the UE's power class. Reference clause 6 Parameter Set 14
---	--

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

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	24
- Cell info	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
- Intra-frequency cell id	25
- 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.25 (TDD)" in clause 6.1.4.3
- Intra-frequency cell id	26
- 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.26 (TDD)" in clause 6.1.4.3
- Intra-frequency cell id	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	
- Inter frequency cell id	21
- 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.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.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 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)

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	25
- Cell info	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
- 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	26
- 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.26 (FDD)" in clause 6.1.4.3
- 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
- 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	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
....	
- Inter-frequency measurement system information	
....	
- New inter-frequency cells	
- Inter frequency cell id	21
- 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 (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
- Cell info	Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Inter frequency cell id	23
- Frequency 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	24
- Frequency info	Not present
- Cell info	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
- Cell info	Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Inter frequency cell id	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
- Frequency info	28
- Cell info	Not present
- Inter frequency cell id	Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Frequency 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
- Cell info	1
- Inter frequency cell id	Not present
- Frequency info	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
- Cell info	Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Inter frequency cell id	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
- Frequency info	3
- Cell info	Not present
- Inter frequency cell id	Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Frequency 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
- Cell info	7
- Inter frequency cell id	Not present
- Frequency info	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 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	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	116

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

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	25
- Cell info	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
- Intra-frequency cell id	24
- 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.24 (TDD)" in clause 6.1.4.3
- Intra-frequency cell id	26
- 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.26 (TDD)" in clause 6.1.4.3
- Intra-frequency cell id	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	
- Inter frequency cell id	21
- 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.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

.....	
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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)

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	26
- Cell info	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
- 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
....	
- Inter-frequency measurement system information	
....	
- New inter-frequency cells	
- Inter frequency cell id	21

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

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

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	26
- Cell info	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
- Intra-frequency cell id	24
- 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.24 (TDD)" in clause 6.1.4.3
- Intra-frequency cell id	25
- 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.26 (TDD)" in clause 6.1.4.3
- Intra-frequency cell id	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 6.1.4.5
- 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 6.1.4.6
- 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 6.1.4.7
.....	
- 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 6.1.4.4
- 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 6.1.4.4
- 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)

- Intra-frequency measurement system information	
.....	
- New intra-frequency cells	
- Intra-frequency cell id	27
- Cell info	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
- 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

- Cell info	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
- 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	7
- 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.7 (FDD)" in clause 6.1.4
- 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 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
- 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 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	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 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
.....	
- Inter-frequency measurement system information	
.....	
- 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 (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
- Inter frequency cell id	25
- Frequency info	Not present
- Cell info	Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Inter frequency cell id	25
- Frequency info	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
- Inter frequency cell id	26
- Frequency info	Not present
- Cell info	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=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.27 (TDD)

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

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

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	27
- Cell info	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
- 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 - Cell info	28 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 - Cell info	1 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 - Cell info	2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b
- Intra-frequency cell id - Cell info	3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b
- Intra-frequency cell id - Cell info	7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b
- Intra-frequency cell id - Cell info	8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b
.....	
- Inter-frequency measurement system information	
.....	
- New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info	24 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b 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 - Frequency info - Cell info	25 Not present 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 - Frequency info - Cell info	26 Not present 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 - Frequency info - Cell info	4 Not present Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b
- Inter frequency cell id - Frequency info - Cell info	5 Not present Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b
- Inter frequency cell id - Frequency info - Cell info	6 Not present 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)

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	28
- Cell info	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
- 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
- Cell info	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
- 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	8
- 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.8 (FDD)" in clause 6.1.4
- 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 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
- 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 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	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 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
.....	
- Inter-frequency measurement system information	
.....	
- 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 (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
- Cell info	25 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Inter frequency cell id	26 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Frequency info	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
- Cell info	26 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Inter frequency cell id	26 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Frequency 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
- Cell info	4 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Inter frequency cell id	4 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- 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 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Inter frequency cell id	5 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- 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 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Inter frequency cell id	6 Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101
- Frequency 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.28 (TDD)

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

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

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	28
- Cell info	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
- 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	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	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 6.1.4.2
- 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
....	
- Inter-frequency measurement system information	
....	
- 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
.....	

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

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

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

Default settings for cell No.31 (FDD)

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 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 mode	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	Not Present	
- Treselections,PCH	Not Present	
- Treselections,FACH	Not Present	
- Speed dependent ScalingFactor for Treeselection	Not Present	
- Inter-frequency ScalingFactor for Treeselection	Not Present	
- Inter-RAT ScalingFactor for Treeselection	Not Present	
- Non-HCS_TCRmax	Not Present (MD, default = 'not used')	
- Non-HCS_NCR	Not Present (MD)	
- Non-HCS_TCRmaxHyst	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_{barred}	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 _s	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 _{CRmax}	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 _{barred}	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 TDD option	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 mode	TDD	
- CHOICE TDD option	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	

- CHOICE mode - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Additional RACH TFS for CCCH - RACH TFCS - Additional RACH TFCS for CCCH - PRACH partitioning - Access Service Class - ASC Settings - Persistence scaling factors - AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information list - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE TDD option - CHOICE Burst Type - no data - CHOICE TDD option - no data - Code List - Channelisation Code - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - 2 bit CTFC - Power offset information - FACH/PCH information list - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size	TDD Not Present ALL 10 No coding Not Present 1 0 Not present Not present Not present Not Present (Default all) Not Present 6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) (MP - but treated as if not received by UE) (MP - but treated as if not received by UE) 3.84 Mcps TDD 0 Not Present (MD "Frame") Not Present (MD) 1.0 Not Present (MD "1") Not present (empty) 3.84 Mcps TDD 1 FALSE 3.84 Mcps TDD MBSFN Burst Type 3.84 Mcps TDD 16/1 (MP - but treated as if not received by UE) Normal TFCI signalling Complete reconfiguration 2 bit CTFC 0 Not Present (MP - but treated as if not received by UE) Common transport channels 16
- Number of TBs and TTI List - Number of Transport blocks - CHOICE mode - Transmission Time Interval - CHOICE Logical Channel List	0 TDD 10 ALL

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

- CHOICE Logical Channel List - no data	ALL
- Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size	Reference clause 6.10 "Parameter Set" Turbo Not Present
- MCCH configuration information - Access Info Period coefficient - Repetition Period coefficient - Modification period coefficient - RLC info - DL UM RLC LI size - DL Duplication Avoidance and Reordering info - DL Out of sequence delivery info - Timer OSD - Window size OSD - TCTF presence	Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set"
- FACH carrying MTCH list - Scheduling information	Reference clause 11.1.1 "MCCH configuration parameters" Reference clause 11.1.1 "MCCH configuration parameters" Reference clause 11.1.1 "MCCH configuration parameters"
- CHOICE mode - no data	7
- TDD MBSFN information - Time slot list - Timeslot Number	Not Present
- CHOICE TDD option - Timeslot number	Not Present
- Cell parameters ID	Not Present
- Timeslot Number	TDD
- CHOICE TDD option - Timeslot number	(This list describes all Timeslots (0...14) in the frame)
- Cell parameters ID	3.84 Mcps TDD
	0
	1
	(Repeated for each Timeslot (1...14))
	3.84 Mcps TDD
	(1...14)
	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 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 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 "Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB"	
- Number of TB and TTI List	Reference clause 6.11.7 "Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB"	
- Number of Transport blocks	Reference clause 6.11.7 "Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps 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 "Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB"	
- Type of channel coding	turbo	
- Coding Rate	not present	
- Rate matching attribute	Reference clause 6.11.7 "Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB"	
- CRC size	Reference clause 6.11.7 "Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB"	
- MCCH configuration information		

- Access Info Period coefficient	Reference to clause 11.2.1 “MCCH configuration parameters”	
- Repetition Period coefficient	Reference to clause 11.2.1 “MCCH configuration parameters”	
- Modification period coefficient	Reference to clause 11.2.1 “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	
- 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 Memory Partitioning	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	"11111111"
- SYNC_UL codes bitmap	10 dB
- UL Target SIR	3 dB
- Power Ramping Step	8
- Max SYNC_UL Transmissions	32
- Mmax	
- PRACH definition	
- Timeslot number	1.28 Mcps TDD
- CHOICE TDD option	1
- Timeslot number	
- 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

- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping table	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	1.28 Mcps TDD or 3.84 Mcps TDD
- Offset	0
- Common timeslot info	Not Present (MD "Frame")
- 2 nd interleaving mode	Not Present (MD)
- TFCI coding	1.0
- Puncturing limit	Not Present (MD "1")
- Repetition period	Not present (empty)
- Repetition length	
- Individual timeslot info	
- CHOICE TDD option	1.28 Mcps TDD
- Timeslot number	1
- TFCI existence	FALSE
- Midamble Shift and burst type	1.28 Mcps TDD
- CHOICE TDD option	Default midamble
- Midamble Allocation Mode	16
- Midamble configuration	
- CHOICE TDD option	1.28 Mcps TDD
- Modulation	QPSK
- SS-TPC Symbols	1
- Code List	
- Channelisation Code	16/1
- TFCS	Not Present
- FACH/PCH information list	Not Present
- PICH info	Not Present
- 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 (Default 'HSDPA capability not indicated')
- E-DCH cell Indicator	Not Present (Default 'E-DCH capability not indicated')
- Secondary CCPCH system information MBMS	
- Secondary CCPCH system information	
- Secondary CCPCH info MBMS	
- CHOICE mode	1.28 Mcps TDD
- Common timeslot info MBMS	Frame
- 2 nd interleaving mode	Reference clause 6.11 "Parameter Set"
- TFCI coding	Reference clause 6.11 "Parameter Set"
- Puncturing limit	
- Downlink Timeslots and Codes	
- First Individual timeslot info	
- Timeslot number	1.28 Mcps TDD
- CHOICE TDD option	0
- Timeslot number	FALSE
- TFCI existence	
- Midamble Shift and burst type	1.28 Mcps TDD
- CHOICE TDD option	Default midamble
- Midamble Allocation Mode	16
- Midamble configuration	
- CHOICE TDD option	1.28 Mcps TDD
- Modulation	QPSK
- SS-TPC Symbols	1
- First timeslot channelisation codes	
- CHOICE codes representation	Reference clause 5.5.2 "Downlink physical channels code allocation for Signalling"
- CHOICE more timeslots	No more timeslots

- no data - MBSFN Special Time Slot - Modulation	TS7 QPSK
- TFCS - CHOICE <i>TFCI signalling</i> - TFCI Field 1 information - CHOICE <i>TFCS representation</i> - TFCS complete reconfiguration information - CHOICE <i>CTFC Size</i> - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information	Normal TFCI signalling Complete reconfiguration 2 bit 0 Not Present 1 Not Present 2 Not Present 3 Not Present
- FACH carrying MCCH - TFS - CHOICE <i>Transport channel type</i> - Dynamic Transport Format Information - RLC Size - Number of TBs and TTI List - Number of Transport blocks - CHOICE <i>mode</i> - Transmission Time Interval - CHOICE <i>Logical Channel List</i> - no data - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - MCCH configuration information - Access Info Period coefficient - Repetition Period coefficient - Modification period coefficient - RLC info - DL UM RLC LI size - DL Duplication Avoidance and Reordering info - DL Out of sequence delivery info - Timer OSD - Window size OSD - TCTF presence - FACH carrying MTCH list - Scheduling information - CHOICE <i>mode</i> - no data - TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID	Common transport channels Reference clause 6.11 "Parameter Set" Reference clause 6.11 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Not Present ALL Reference clause 6.11 "Parameter Set" Turbo Not Present Reference clause 6.11 "Parameter Set" Reference clause 6.11 "Parameter Set" Reference clause 11.1.1 "MCCH configuration parameters" Reference clause 11.1.1 "MCCH configuration parameters" Reference clause 11.1.1 "MCCH configuration parameters" 7 Not Present Not Present 48 FALSE Not Present Not Present TDD (This list describes all Timeslots (0...6) in the frame) 1.28 Mcps TDD 0 1 (Repeated for each Timeslot (1...6)) 1.28 Mcps TDD (1...6) 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	0
- Number of Transport blocks	
- 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 nd 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)

- Individual timeslot info - CHOICE TDD option - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE <i>TDD option</i> - CHOICE Burst Type - no data - CHOICE <i>TDD option</i> - no data - Code List - Channelisation Code	7.68 Mcps TDD 1 FALSE
- TFCS - CHOICE <i>TFCI signalling</i> - TFCI Field 1 information - CHOICE <i>TFCS representation</i> - TFCS complete reconfiguration information - CHOICE <i>CTFC Size</i> - CTFC information - 2 bit CTFC - Power offset information	7.68 Mcps TDD MBSFN Burst Type
- FACH/PCH information	7.68 Mcps TDD
- TFS - CHOICE <i>Transport channel type</i> - Dynamic Transport format information - RLC Size	32/1 (MP - but treated as if not received by UE) Normal TFCI signalling
- Number of TBs and TTI List - Number of Transport blocks - CHOICE <i>mode</i> - Transmission Time Interval - CHOICE Logical channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size	Complete reconfiguration 2 bit CTFC 0 Not Present
- Transport channel Identity - CTCH indicator - PICH info - MCCH configuration information - CBS DRX Level 1 information - Frequency band indicator - Frequency band indicator 2 - HSDPA cell Indicator - E-DCH cell Indicator	(MP - but treated as if not received by UE) (PCH) Common transport channels
- Secondary CCPCH system information MBMS - Secondary CCPCH system information - Secondary CCPCH info MBMS - CHOICE <i>mode</i> - Common timeslot info MBMS - 2 nd interleaving mode - TFCI coding - Puncturing limit - Downlink Timeslots and Codes VHCR- - First Individual timeslot info - Timeslot number - CHOICE <i>TDD option</i> - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE <i>TDD option</i> - CHOICE <i>Burst Type</i> - no data - CHOICE <i>TDD option</i> - no data - First timeslot channelisation codes VHCR - CHOICE <i>codes representation</i>	16 0 TDD 10 ALL 10 No coding Not Present 1 0 1 1 FALSE Not Present Not Present 7.68 Mcps TDD Frame Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" 7.68 Mcps TDD 0 Reference clause 6.10 "Parameter Set" 7.68 Mcps TDD MBSFN Burst Type 7.68 Mcps TDD Reference clause 5.5.2 "Downlink physical channels code"

- CHOICE <i>more timeslots</i> - no data - Modulation	allocation for Signalling" No more timeslots QPSK
- TFCS - CHOICE <i>TFCI signalling</i> - TFCI Field 1 information - CHOICE <i>TFCS representation</i> - TFCS complete reconfiguration information - CHOICE <i>CTFC Size</i> - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information - CTFC information - 2bit CTFC - Power offset information	Normal TFCI signalling Complete reconfiguration 2 bit 0 Not Present 1 Not Present 2 Not Present 3 Not Present
- FACH carrying MCCH - TFS - CHOICE <i>Transport channel type</i> - Dynamic Transport Format Information - RLC Size - Number of TBs and TTI List - Number of Transport blocks - CHOICE <i>mode</i> - Transmission Time Interval - CHOICE <i>Logical Channel List</i> - no data - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - MCCH configuration information - Access Info Period coefficient - Repetition Period coefficient - Modification period coefficient - RLC info - DL UM RLC LI size - DL Duplication Avoidance and Reordering info - DL Out of sequence delivery info - Timer OSD - Window size OSD - TCTF presence - FACH carrying MTCH list - Scheduling information - CHOICE <i>mode</i> - no data - TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID	Common transport channels Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" TDD Not Present ALL Reference clause 6.10 "Parameter Set" Turbo Not Present Reference clause 6.10 "Parameter Set" Reference clause 6.10 "Parameter Set" Reference clause 11.1.1 "MCCH configuration parameters" Reference clause 11.1.1 "MCCH configuration parameters" Reference clause 11.1.1 "MCCH configuration parameters" 7 Not Present Not Present 48 false Not Present Not Present TDD (This IE is repeated for all Timeslots (0...14) in the frame) 7.68 Mcps TDD 0 1 (Repeated for each Timeslot (1...14)) 7.68 Mcps TDD (1...14) 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"> - SIB 12 Indicator - FACH measurement occasion info - Measurement control system information - Use of HCS - Cell selection and reselection quality measureCell - Intra-frequency measurement system information - Intra-frequency measurement identity - Intra-frequency cell info list - CHOICE <i>intra-frequency cell removal</i> - New intra-frequency cells - Intra-frequency cell id - Cell info <ul style="list-style-type: none"> - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE <i>mode</i> - Primary CCPCH info - Primary scrambling code - Primary CCPCH TX power - TX Diversity indicator - Cell Selection and Re-selection info 	<p>FALSE Not Present</p> <p>Not used CPICH RSCP</p> <p>Not Present</p> <p>Not present</p> <p>31</p> <p>Not present (MD) Absence of this IE is equivalent to default value 0 dB</p> <p>Not Present</p> <p>FALSE FDD</p> <p>Refer to clause titled "Default settings for cell No.31 (FDD)" in clause 6.1.4.4</p> <p>Not Present</p> <p>FALSE</p> <p>Not Present (The IE shall be absent as this is the serving cell)</p>
<ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE <i>mode</i> - Primary CCPCH info - Primary scrambling code - Primary CCPCH TX power - TX Diversity indicator - Cell Selection and Re-selection info 	<p>32</p> <p>Not present (MD) Absence of this IE is equivalent to default value 0 dB</p> <p>Not Present</p> <p>FALSE FDD</p> <p>Refer to clause titled "Default settings for cell No.32 (FDD)" in clause 6.1.4.4</p> <p>Not Present</p> <p>FALSE</p> <p>Not Present (The IE shall be absent as this is the serving cell)</p>
<ul style="list-style-type: none"> - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info 	<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>
<p>Reporting</p> <ul style="list-style-type: none"> - Cells for measurement - Intra-frequency measurement quantity - Intra-frequency reporting quantity for RACH - Maximum number of reported cells on RACH - Reporting information for state CELL_DCH - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information - MBSFN frequency list 	<p>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"> - SIB 12 Indicator - FACH measurement occasion info - Measurement control system information - Use of HCS - Cell selection and reselection quality measureCell - Intra-frequency measurement system information 	<p>FALSE Not Present</p> <p>Not used CPICH RSCP</p>
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- Intra-frequency measurement identity - Intra-frequency cell info list - CHOICE <i>intra-frequency cell removal</i> - New intra-frequency cells - Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - CHOICE SyncCase - Cell parameters ID - SCTD indicator - Primary CCPCH TX power - Timeslot list - Cell Selection and Re-selection info	Not Present Not present 31 Not present (MD) Not Present FALSE TDD TDD 3.84 and 7.68 Mcps TDD Not Present Refer to clause titled "Default settings for cell No.31 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 FALSE Not Present Not Present Not Present (The IE shall be absent as this is the serving cell)
- Intra-frequency cell id - Cell info - Cell individual offset - Reference time difference to cell - Read SFN Indicator - CHOICE mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - CHOICE SyncCase - Cell parameters ID - Primary CCPCH TX power - Timeslot list - Cell Selection and Re-selection info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info	32 Not present (MD) Not Present FALSE TDD TDD 3.84 and 7.68 Mcps TDD Not Present Refer to clause titled "Default settings for cell No.32 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 Not Present Not Present Not Present 37 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 38 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
- Cells for measurement - Intra-frequency measurement quantity - Intra-frequency reporting quantity for RACH Reporting - Maximum number of reported cells on RACH - Reporting information for state CELL_DCH - Inter-frequency measurement system information - Inter-RAT measurement system information - Traffic volume measurement system information - MBSFN frequency list	Not Present Not Present

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)

- 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	
- Intra-frequency measurement identity	Not Present
- Intra-frequency cell info list	
- CHOICE <i>intra-frequency cell removal</i>	Not present
- New intra-frequency cells	
- Intra-frequency cell id	31
- Cell info	
- Cell individual offset	Not present (MD)
- Reference time difference to cell	Not Present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- TSTD indicator	FALSE
- Cell parameters ID	Refer to clause titled "Default settings for cell No.31 (1.28 Mcps TDD)" in clause 6.1.4.4
- SCTD indicator	FALSE
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Cell Selection and Re-selection info	Not Present (The IE shall be absent as this is the serving cell)
- Intra-frequency cell id	32
- Cell info	
- Cell individual offset	Not present (MD)
- Reference time difference to cell	Not Present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- TSTD indicator	FALSE
- Cell parameters ID	Refer to clause titled "Default settings for cell No.32 (1.28 Mcps TDD)" in clause 6.1.4.4
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Cell Selection and Re-selection info	Not Present
- Intra-frequency cell id	37
- Cell info	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
- Intra-frequency cell id	38
- Cell info	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
- Cells for measurement	Not Present
- Intra-frequency measurement quantity	Not Present
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	Not Present

- 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
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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)

- TDD MBSFN information	
- Time slot list	(This list describes all Timeslots (0...14) in the frame)
- Timeslot Number	3.84 Mcps TDD
- CHOICE TDD option	0
- Timeslot number	9
- Cell parameters ID	(Repeated for each Timeslot (1...14))
- Timeslot Number	3.84 Mcps TDD
- CHOICE TDD option	(1...14)
- Timeslot number	5 (Repeated for each Timeslot (1...14))
- Cell parameters ID	

Contents of System Information Block type 5 for cell No.32 (1.28 Mcps TDD)

- TDD MBSFN information	
- Time slot list	(This list describes all Timeslots (0...6) in the frame)
- Timeslot Number	

- CHOICE TDD option - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE TDD option - Timeslot number - Cell parameters ID	1.28 Mcps TDD 0 9 (Repeated for each Timeslot (1...6) 1.28 Mcps TDD (1...6) 5 (Repeated for each Timeslot (1...6)
---	---

Contents of System Information Block type 5 for cell No.32 (7.68 Mcps TDD)

- TDD MBSFN information	
- Time slot list	(This list describes all Timeslots (0...14) in the frame)
- Timeslot Number	7.68 Mcps TDD
- CHOICE TDD option	0
- Timeslot number	9
- Cell parameters ID	(Repeated for each Timeslot (1...14))
- Timeslot Number	7.68 Mcps TDD
- CHOICE TDD option	(1...14)
- Timeslot number	5 (Repeated for each Timeslot (1...14))
- Cell parameters ID	

Contents of System Information Block type 11 for cell No.32 (FDD)

- Intra-frequency measurement system information	
....	
- 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
	31
- 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.31 (FDD)" in clause 6.1.4.4
- Cell info	37
	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)

- Intra-frequency measurement system information	
....	
- 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
	31
- Intra-frequency cell id	

- 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 - Cell info	37 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 - Cell info	38 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)

- Intra-frequency measurement system information	
....	
- New intra-frequency cells - Intra-frequency cell id - Cell info	32 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 - Cell info	31 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 - Cell info	37 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 - Cell info	38 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 0010 0001B
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Default settings for cell No.33 (FDD)

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

Default settings for cell No.33 (TDD)

Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6.1.6 Reference clause 5.1.2 126
--	---

Default settings for cell No.33 (3.84 Mcps TDD IMB)

Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" Reference clause 5.1.2 384
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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)

- TDD MBSFN information	
- Time slot list	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot Number	0
- CHOICE TDD option	126
- Timeslot number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Cell parameters ID	1
- Timeslot Number	122
- CHOICE TDD option	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot number	2
- Cell parameters ID	122
- Timeslot Number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- CHOICE TDD option	3
- Timeslot number	122
- Cell parameters ID	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot Number	4
- CHOICE TDD option	126
- Timeslot number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Cell parameters ID	5
- Timeslot Number	126
- CHOICE TDD option	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot number	6
- Cell parameters ID	126
- Timeslot Number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- CHOICE TDD option	7
- Timeslot number	126
- Cell parameters ID	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot Number	8
- CHOICE TDD option	122
- Timeslot number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Cell parameters ID	9

- Cell parameters ID	122
- Timeslot Number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	10
- Cell parameters ID	122
- Timeslot Number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	11
- Cell parameters ID	126
- Timeslot Number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	12
- Cell parameters ID	126
- Timeslot Number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	13
- Cell parameters ID	126
- Timeslot Number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	14
- Cell parameters ID	126

Contents of System Information Block type 5 for cell No.33 (1.28 Mcps TDD)

- TDD MBSFN information	
- Time slot list	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	0
- Cell parameters ID	126
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	1
- Cell parameters ID	122
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	2
- Cell parameters ID	122
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	3
- Cell parameters ID	122
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	4
- Cell parameters ID	126
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	5
- Cell parameters ID	126
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	
- Timeslot number	6
- Cell parameters ID	126

Contents of System Information Block type 11 for cell No.33 (FDD)

- Intra-frequency measurement system information	
....	
- 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 - Cell info	34 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 - Cell info	35 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 - Cell info	36 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)

- Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info	33 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
- Intra-frequency cell id - Cell info	34 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
- Intra-frequency cell id - Cell info	35 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 - Cell info	36 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.33 (1.28 Mcps TDD)

- Intra-frequency measurement system information - 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 (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
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Default settings for cell No.34 (FDD)

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 270
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Default settings for cell No.34 (TDD)

Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6.1.6 Reference clause 5.1.2 118
--	---

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

Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" Reference clause 5.1.2 512
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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)

- TDD MBSFN information	
- 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)

- TDD MBSFN information	
- Time slot list	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	0
- Timeslot number	118
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	1
- Timeslot number	122
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	2
- Timeslot number	122
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	3
- Timeslot number	122
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	4
- Timeslot number	118
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	5
- Timeslot number	118
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	6
- Timeslot number	118
- Cell parameters ID	

Contents of System Information Block type 11 for cell No.34 (FDD)

- Intra-frequency measurement system information	
....	
- 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
	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 (FDD)" in clause 6.1.4.4
- Cell info	35
	Same content as specified for intra-frequency cell id=33 (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	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.33 (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)

- Intra-frequency measurement system information	
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....	
- New intra-frequency cells	
- Intra-frequency cell id	
- Cell info	
	34 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	
- Cell info	
	33 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
- Intra-frequency cell id	
- Cell info	
	35 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	
- Cell info	
	36 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.34 (1.28 Mcps TDD)

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	
- Cell info	
	34 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	
- Cell info	
	33 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	
- Cell info	
	35 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	
- Cell info	
	36 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.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
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Default settings for cell No.35 (FDD)

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

Default settings for cell No.35 (TDD)

Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6.1.6 Reference clause 5.1.2
	110

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

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

- TDD MBSFN information	
- Time slot list	
- Timeslot Number	
- CHOICE TDD option	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot number	0
- Cell parameters ID	110
- Timeslot Number	
- CHOICE TDD option	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot number	1
- Cell parameters ID	122
- Timeslot Number	
- CHOICE TDD option	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot number	2
- Cell parameters ID	122
- Timeslot Number	
- CHOICE TDD option	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot number	3
- Cell parameters ID	122
- Timeslot Number	
- CHOICE TDD option	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot number	4
- Cell parameters ID	110
- Timeslot Number	
- CHOICE TDD option	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot number	5
- Cell parameters ID	110
- Timeslot Number	
- CHOICE TDD option	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot number	6
- Cell parameters ID	110
- Timeslot Number	
- CHOICE TDD option	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot number	7

- Cell parameters ID	110
- Timeslot Number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	8
- Timeslot number	122
- Cell parameters ID	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot Number	9
- CHOICE <i>TDD option</i>	122
- Timeslot number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Cell parameters ID	10
- Timeslot Number	122
- 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	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	12
- Timeslot number	110
- Cell parameters ID	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Timeslot Number	13
- CHOICE <i>TDD option</i>	110
- Timeslot number	3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate)
- Cell parameters ID	14
- Timeslot Number	110
- CHOICE <i>TDD option</i>	
- Timeslot number	
- Cell parameters ID	

Contents of System Information Block type 5 for cell No.35 (1.28 Mcps TDD)

- TDD MBSFN information	
- Time slot list	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	0
- Timeslot number	110
- Cell parameters ID	1.28 Mcps TDD (as appropriate)
- Timeslot Number	1
- CHOICE <i>TDD option</i>	122
- Timeslot number	1.28 Mcps TDD (as appropriate)
- Cell parameters ID	2
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	122
- Timeslot number	1.28 Mcps TDD (as appropriate)
- Cell parameters ID	3
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	122
- Timeslot number	1.28 Mcps TDD (as appropriate)
- Cell parameters ID	4
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	110
- Timeslot number	1.28 Mcps TDD (as appropriate)
- Cell parameters ID	5
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	110
- Timeslot number	1.28 Mcps TDD (as appropriate)
- Cell parameters ID	6
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	110
- Timeslot number	
- Cell parameters ID	

Contents of System Information Block type 11 for cell No.35 (FDD)

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	
- Cell info	
	35 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
	33 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
	34 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
	36 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)

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	
- Cell info	
	35 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
	33 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
	34 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
	36 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)

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	

- Intra-frequency cell id	35	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	33	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	34	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	36	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.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
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Default settings for cell No.36 (FDD)

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

Default settings for cell No.36 (TDD)

Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6.1.6 Reference clause 5.1.2 102
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Default settings for cell No.31 (3.84 Mcps TDD IMB)

Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" Reference clause 5.1.2 768
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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)

- TDD MBSFN information	
- 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	122
- 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)

- TDD MBSFN information	
- Time slot list	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	0
- Timeslot number	102
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	1
- Timeslot number	122
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	2
- Timeslot number	122
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	3
- Timeslot number	122
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	4
- Timeslot number	102
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	5
- Timeslot number	102
- Cell parameters ID	
- Timeslot Number	1.28 Mcps TDD (as appropriate)
- CHOICE <i>TDD option</i>	6
- Timeslot number	102
- Cell parameters ID	

Contents of System Information Block type 11 for cell No.36 (FDD)

- Intra-frequency measurement system information	
....	
- 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
	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 (FDD)" in clause 6.1.4.4
- Cell info	34
	Same content as specified for intra-frequency cell id=33 (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)

- Intra-frequency measurement system information	
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....	
- New intra-frequency cells	
- Intra-frequency cell id	
- Cell info	
	36 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
- Intra-frequency cell id	
- Cell info	
	33 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
- Intra-frequency cell id	
- Cell info	
	34 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
- Intra-frequency cell id	
- Cell info	
	35 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

Contents of System Information Block type 11 for cell No.36 (1.28 Mcps TDD)

- Intra-frequency measurement system information	
....	
- New intra-frequency cells	
- Intra-frequency cell id	
- Cell info	
	36 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
- Intra-frequency cell id	
- Cell info	
	33 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	
- Cell info	
	34 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	
- Cell info	
	35 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 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
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Default settings for cell No.37 (FDD)

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 420
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Default settings for cell No.37 (TDD)

Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6.1.6 Reference clause 5.1.2 17
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Default settings for cell No.31 (3.84 Mcps TDD IMB)

Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" Reference clause 5.1.2 896
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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)

- TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID	(This list describes all Timeslots (0...14) in the frame) 3.84 Mcps TDD 0 17 (Repeated for each Timeslot (1...14)) 3.84 Mcps TDD (1...14) 5 (Repeated for each Timeslot (1...14))
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Contents of System Information Block type 5 for cell No.37 (1.28 Mcps TDD)

- TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID	(This list describes all Timeslots (0...6) in the frame) 1.28 Mcps TDD 0 17 (Repeated for each Timeslot (1...6)) 1.28 Mcps TDD (1...6) 5 (Repeated for each Timeslot (1...6))
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Contents of System Information Block type 5 for cell No.37 (7.68 Mcps TDD)

- TDD MBSFN information - Time slot list - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number	(This list describes all Timeslots (0...14) in the frame) 7.68 Mcps TDD 0
--	---

- Cell parameters ID - Timeslot Number - CHOICE <i>TDD option</i> - Timeslot number - Cell parameters ID	17 (Repeated for each Timeslot (1...14) 7.68 Mcps TDD (1...14) 5 (Repeated for each Timeslot (1...14)
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Contents of System Information Block type 11 for cell No.37 (FDD)

- 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 (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)

- 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 (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
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Default settings for cell No.38 (FDD)

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference clause 6.10 "Parameter Set" Minimum supported by the UE's power class. Reference clause 6.10 "Parameter Set" 470
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Default settings for cell No.38 (TDD)

Downlink input level PCCPCH/PCPICH carrier number Cell Channel Description - Primary CCPCH info - Cell parameters ID	Reference clause 6.1.6 Reference clause 5.1.2 25
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Default settings for cell No.31 (3.84 Mcps TDD IMB)

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

- TDD MBSFN information	
- Time slot list	(This list describes all Timeslots (0...14) in the frame)
- Timeslot Number	3.84 Mcps TDD
- CHOICE <i>TDD option</i>	0
- Timeslot number	25
- Cell parameters ID	(Repeated for each Timeslot (1...14))
- Timeslot Number	3.84 Mcps TDD
- CHOICE <i>TDD option</i>	(1...14)
- Timeslot number	5 (Repeated for each Timeslot (1...14))
- Cell parameters ID	

Contents of System Information Block type 5 for cell No.38 (1.28 Mcps TDD)

- TDD MBSFN information	
- Time slot list	(This list describes all Timeslots (0...6) in the frame)
- Timeslot Number	1.28 Mcps TDD
- CHOICE <i>TDD option</i>	0
- Timeslot number	25
- Cell parameters ID	(Repeated for each Timeslot (1...6))
- Timeslot Number	1.28 Mcps TDD
- CHOICE <i>TDD option</i>	(1...6)
- Timeslot number	5 (Repeated for each Timeslot (1...6))
- Cell parameters ID	

Contents of System Information Block type 5 for cell No.38 (7.68 Mcps TDD)

- TDD MBSFN information	
- Time slot list	(This list describes all Timeslots (0...14) in the frame)
- Timeslot Number	7.68 Mcps TDD
- CHOICE <i>TDD option</i>	0
- Timeslot number	25
- Cell parameters ID	(Repeated for each Timeslot (1...14))
- Timeslot Number	7.68 Mcps TDD
- CHOICE <i>TDD option</i>	(1...14)
- Timeslot number	5 (Repeated for each Timeslot (1...14))
- Cell parameters ID	

Contents of System Information Block type 11 for cell No.38 (FDD)

- Intra-frequency measurement system information	
....	
- 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)

- Intra-frequency measurement system information	
....	
- 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)

- Intra-frequency measurement system information	
....	
- 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 fulfills 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	Version
		Idle mode	
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].	
	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	
UE_TXPWR_MAX_RACH	dBm	21	21	
PCCPCH RSCP	dBm	-60	-70	
NOTE:	Both cells fulfil 3GPP TS 25.304 [36], clause 5.2.3.1.2 and 3GPP TS 25.123 [37].			
	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.

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	≤ -122
T-CPICH_Ec (Note 1)	dBm/3.84 MHz	≤ -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: 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 26.6.5.1 of TS 51.010-1 [31] for cell A and the GSM band under test.	As defined in the initial conditions in clause 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		

6.2 Number of neighbour cells

The options for the number of neighbour cells (ie 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, ie 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, ie 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: Only one pattern in use. Rel-5 and onwards: 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. 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: Only one pattern in use. Rel-5 and onwards: 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. 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: Only one pattern in use. Rel-5 and onwards: 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. 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: Only one pattern in use. Rel-5 and onwards: 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. 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: Only one pattern in use. Rel-5 and onwards: 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. 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: Only one pattern in use. Rel-5 and onwards: 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. 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 Slot Number)	8	8	8	8	
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. 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	3 configurations possible. DL, UL or both DL and UL			
UL compressed mode method	SF/2	SF/2	SF/2	SF/2	

Parameter	Inter Frequency FDD	GSM Carrier RSSI	GSM Initial BSIC identification	GSM BSIC re-confirmation	Note
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	

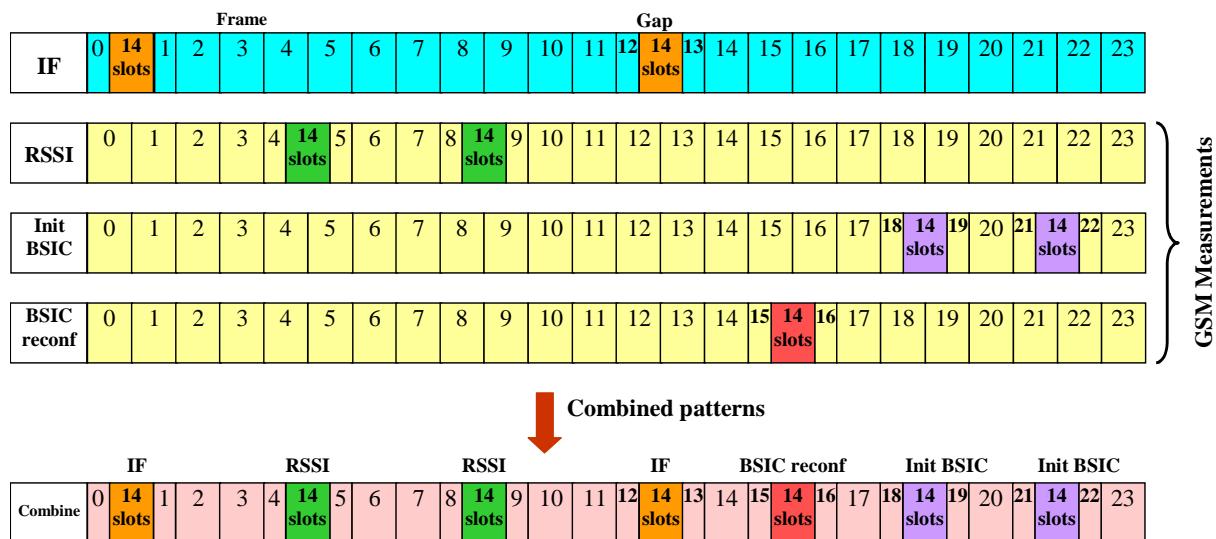


Figure 6.8.2.2: Inter-frequency (IF) and Inter-RAT (IRAT) measurement gaps during 24 frames cycle for the compressed mode pattern as specified in Table 6.8.7

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

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 DCCH 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 DCCH" 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.

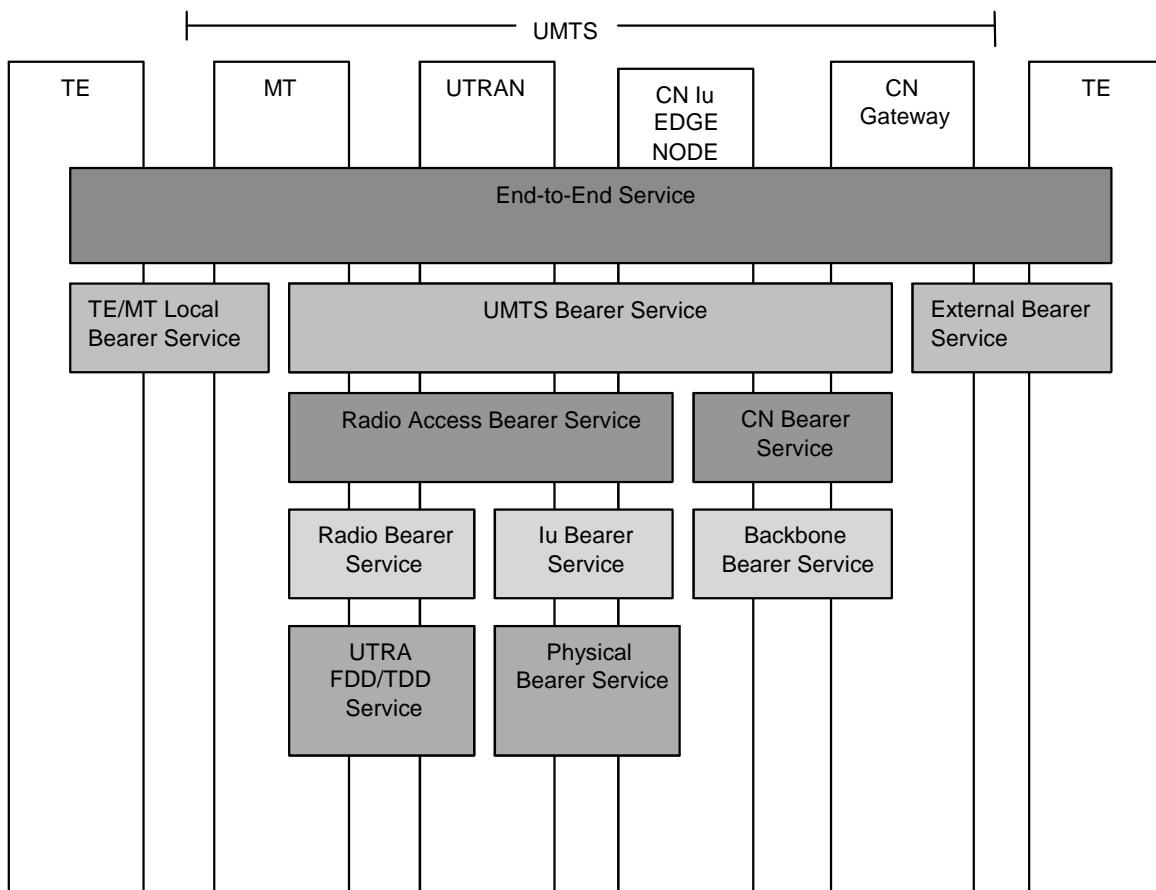


Figure 6.10.1.1: UMTS QoS Architecture

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 conversational RT	Streaming class streaming RT	Interactive class Interactive best effort	Background Background best effort
Fundamental characteristics	<ul style="list-style-type: none"> - Preserve time relation (variation) between information entities of the stream Conversational pattern (stringent and low delay) 	<ul style="list-style-type: none"> - Preserve time relation (variation) between information entities of the stream (i.e. some but constant delay) 	<ul style="list-style-type: none"> Request response pattern Preserve payload content 	<ul style="list-style-type: none"> Destination is not expecting the data within a certain time Preserve payload content
Example of the application	<ul style="list-style-type: none"> - speech, video, etc. 	<ul style="list-style-type: none"> - facsimile (NT) - streaming audio and video 	<ul style="list-style-type: none"> - Web browsing 	<ul style="list-style-type: none"> - 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 3GPP TS 23.107 [15]	SSD 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) DL:(12.2 7.95 5.9 4.75)	CS	R99
1b	Conversational	Speech	UL:(12.2 7.4 5.9 4.75) 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) 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) DL:(7.4, 6.7, 5.9, 4.75)	CS	R99

#	Traffic class 3GPP TS 23.107 [15]	SSD 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) 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 SRBs are mapped	Version
1	UL:1.7 DL:1.7	DCCH	DPCH	R99 and Rel-4 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 depending on UE category and TTI], DL: [max bit rate depending on UE 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 DL: 4.75-12.2	CS	5x10 ⁻⁴ , 1x10 ⁻³ , 5x10 ⁻³	AMR speech
Conversational	Unknown	UL: 64 DL: 64	CS	1x10 ⁻⁴ or 1x10 ⁻⁶	UDI 1B, 64k 3G-324M [15]
Conversational	Unknown	UL: 32 DL: 32	CS	1x10 ⁻⁴ or 1x10 ⁻⁶	32k 3G-324M [15]
Conversational	Unknown	UL: 28.8 DL: 28.8	CS	1x10 ⁻³	Transparent modem
Streaming	Unknown	UL: 14.4 DL: 14.4	CS	1x10 ⁻³	FAX ^[6]
Streaming	Unknown	UL: 28.8 DL: 28.8	CS	1x10 ⁻³	FAX [18] PIAFS 32 kbps
Streaming	Unknown	UL: 57.6 DL: 57.6	CS	1x10 ⁻³	Modem [18], FTM [17] PIAFS 64 kbps
Streaming	Unknown	UL: 64-128 or DL: 64-384	CS	1x10 ⁻³ or 1x10 ⁻⁴	Streaming video, uni-directional
Interactive or Background	N/A	UL: 32-384 DL: 8-2048	PS	1x10 ⁻³ or 1x10 ⁻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.

6.10.2.4 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 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	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	TF0, bits	0x148 (alt 1x0)					
		TF1, bits	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 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	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.							

6.10.2.4.1.1.2.1.2.1.2 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 High prio	NAS_DT Low prio			
RLC	Logical channel type	DCCCH	DCCCH	DCCCH	DCCCH			
	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 High prio	NAS_DT Low prio			
RLC	Logical channel type	DCCCH	DCCCH	DCCCH	DCCCH			
	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
	DPCH	Number of TFCI bits/slot
		0
		Number of TPC bits/slot
	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 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	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	TF0, bits	0x148 (alt 1x0)					
		TF1, bits	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 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	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
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 Number of TPC bits/slot Number of Pilot bits/slot
		0 2 4
	DPDCH	Number of data bits/slot Number of data bits/frame
		34 510

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 (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 TF1, bits TF2, bits	0x81(alternative 1x0) (note) 1x39 1x81	0x103 1x103 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), (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 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	0 39 81	103	60
	TFS (note 1)	TF0, bits TF1, bits TF2, bits	1x0 (note 2) 1x39 1x81	0x103 1x103 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)

6.10.2.4.1.4.2.2 Physical channel parameters

DPCH Downlink	DTX position	Fixed
	Spreading factor	128
	DPCCH	Number of TFCI bits/slot
		0
		Number of TPC bits/slot
	DPDCH	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 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 (alt. 0, 39, 81)	53, 63, 84, 103	60
	Max data rate, bps		12 200	
	TrD PDU header, bit		0	
	MAC header, bit		0	
MAC	MAC multiplexing		N/A	
	TrCH type	DCH	DCH	DCH
	TB sizes, bit	39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81)	53, 63, 84, 103	60
	TFS	TF0, bits TF1, bits TF2 bits TF3, bits TF4, bits TF5, bits	0x81(alternative 1x0) (note) 1x39 1x42 1x55 1x75 1x81	0x103 1x53 1x63 1x84 1x103 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)= (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)

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 header, bit	0		
MAC	MAC multiplexing	N/A		
	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)= (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)

6.10.2.4.1.4a.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
	DPDCH	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 (alt. 0, 39, 42, 55, 61, 81)	53, 63, 87, 103	60
	Max data rate, bps	12 200		
	TrD PDU header, bit	0		
	MAC header, bit	0		
MAC	MAC multiplexing	N/A		
	TrCH type	DCH	DCH	DCH
Layer 1	TB sizes, bit	39, 42, 55, 61, 81 (alt. 0, 39, 42, 55, 61, 81)	53, 63, 87, 103	60
	TFS	TF0, bits TF1, bits TF2 bits TF3, bits TF4, bits TF5, bits	0x81(alternative 1x0) (note) 1x39 1x42 1x55 1x61 1x81	0x103 1x53 1x63 1x87 1x103 N/A
	TTI, ms	20		
	Coding type	CC 1/3		
	CRC, bit	12		
	Max number of bits/TTI after channel coding	303		
	Uplink: Max number of bits/radio frame before rate matching	152		
	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 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	$0 = \{(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1)\}$, $1 = \{(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF3, TF2, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1), (TF3, TF2, TF0, TF1)\}$, $2 = \{(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF3, TF2, TF0, TF0), (TF4, TF3, TF0, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1), (TF3, TF2, TF0, TF1), (TF4, TF3, TF0, TF1)\}$, $3 = \{(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF3, TF2, TF0, TF0), (TF4, TF3, TF0, TF0), (TF5, TF4, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1), (TF3, TF2, TF0, TF1), (TF4, TF3, TF0, TF1), (TF5, TF4, TF1, TF0)\}$

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)= (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), (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), (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), (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)

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 (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
		TF1, bits	1x39	1x99
		TF2, 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
	Uplink: Max number of bits/radio frame before rate matching	128	161	48
	RM attribute	180 to 220	170 to 210	215 to 256
<p>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]).</p>				

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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)

6.10.2.4.1.5.1.2 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 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	0 39 65	99	40
	TFS (note 1)	TF0, bits TF1, bits TF2, bits	1x0 (note 2) 1x39 1x65	0x99 1x99 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)

6.10.2.4.1.5.2.2 Physical channel parameters

DPCH Downlink	DTX position		Fixed
	Spreading factor		128
	DPCCH	Number of TFCI bits/slot	
		Number of TPC bits/slot	
	Number of Pilot bits/slot		4
	DPDCH	Number of data bits/slot	
		Number of data bits/frame	

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 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40
	Max data rate, bps	10 200		
	TrD PDU header, bit	0		
	MAC header, bit	0		
MAC	MAC multiplexing	N/A		
	TrCH type	DCH	DCH	DCH
	TB sizes, bit	39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40
	TFS	TF0, bits TF1, bits TF2, bits	0x65 (alt. 1x0) (note) 1x39 1x42	0x99 1x53 1x63
Layer 1				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)= (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)

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 header, bit		0	
Layer 1	MAC multiplexing		N/A	
	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
		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
	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, DCCCH)= (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)

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 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) (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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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 39 75	84	60
	TFS (note 1)	TF0, bits	1x0 (note 2)	0x84
		TF1, bits	1x39	1x84
		TF2, bits	1x75	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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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

	Number of Pilot bits/slot	4
DPDCH	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 (alt. 0, 39, 61)	87	60
	TFS (note 1)	TF0, bits 0x61 (alt. 1x0) (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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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 39 61	87	60
	Max data rate, bps	7400		
MAC	TrD PDU header, bit	0		
	MAC header, bit	0		
Layer 1	MAC multiplexing	N/A		
	TrCH type	DCH	DCH	DCH
	TB sizes, bit	0 39 61	87	60
	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
<p>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]).</p> <p>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]).</p>				

- 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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 TF1, bits TF2, bits TF3, bits TF4, bits TF5, bits	0x61 (alt. 1x0) (note) 1x39 1x42 1x55 1x58 1x61
			0x87 1x53 1x63 1x76 1x87 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
	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)= (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)

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)= (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)

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 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 TF1, bits TF2, bits	0x58 (alt. 1x0) (note) 1x39 1x58	0x76 1x76 N/A
				0x60 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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 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	0 39 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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 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		
			5900			
	TrD PDU header, bit	0				
	MAC	0				
		N/A				
Layer 1	TrCH type	DCH	DCH	DCH		
	TB sizes, bit	39, 55 (alt. 0, 39, 55)	63	60		
	TFS	0x55 (alt. 1x0) (note)	0x63	0x60		
		1x39	1x63	N/A		
		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 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]).				

6.10.2.4.1.9.1.1.2 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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 39 55	63	60
	Max data rate, bps	5900		
	TrD PDU header, bit	0		
	MAC header, bit	0		
MAC	MAC multiplexing	N/A		
	TrCH type	DCH	DCH	DCH
	TB sizes, bit	0 39 55	63	60
	TFS (note 1)	TF0, bits	1x0 (note 2)	0x63
		TF1, bits	1x39	1x63
		TF2, bits	1x55	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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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
	DPCCH 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 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

6.10.2.4.1.10.1.1.1 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 header, bit		0	
MAC	MAC multiplexing		N/A	
	TrCH type	DCH	DCH	DCH
	TB sizes, bit	39, 49 (alt. 0, 39, 49)	54	60
	TFS	TF0, bits	0x49 (alt. 1x0) (note)	0x54
		TF1, bits	1x39	1x54
		TF2, bits	1x49	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
Layer 1	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 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]).				

6.10.2.4.1.10.1.1.2 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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 39 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 39 49	54	60
	TFS (note 1)	TF0, bits	1x0 (note 2)	0x54
		TF1, bits	1x39	1x54
		TF2, bits	1x49	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
<p>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]).</p> <p>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]).</p>				

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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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
	DPDCH	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 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	TF0, bits 0x42 (alt. 1x0) (note)	0x53	0x60
		TF1, bits 1x39	1x53	N/A
		TF2, bits 1x42	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	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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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 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	0 39 42	53	60
	TFS (note 1)	TF0, bits	1x0 (note 2)	0x53 0x60
		TF1, bits	1x39	N/A
		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
<p>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]).</p> <p>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]).</p>				

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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (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	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	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)

- 6.10.2.4.1.12.1.2 Physical channel parameters

DPCCH 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	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
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)=(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 header, bit	0	
MAC	MAC multiplexing	N/A	
	TrCH type	DCH	
	TB sizes, bit	640	
	TFS	TF0, bits	0x640
		TF1, bits	2x640(altern. 4x640)
	TTI, ms	20(altern. 40)	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	3 948(altern. 7 884)	
	Uplink: Max number of bits/radio frame before rate matching	1 974(altern. 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

DPCCH 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 TF1, bits
		0x640 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 Number of TPC bits/slot Number of Pilot bits/slot
		8 4 8
	DPDCH	Number of data bits/slot Number of data bits/frame
		140 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(alternatively 2x640)
	TTI, ms	20(alternatively 40)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	1 980 (alternatively 3 948)
	Uplink: Max number of bits/radio frame before rate matching	990 (alternatively 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

DPCCH 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(alternatively 2x640)
	TTI, ms	20(alternatively 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 header, bit	0	
MAC	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.

6.10.2.4.1.15.1.3 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
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	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 header, bit	0	
MAC	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
	Number of data bits/slot	28
DPDCH	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 header, bit	0
MAC	MAC multiplexing	N/A

Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS	TF0, bits TF1, bits TF2, bits
		0x576 1x576 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)= (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

RLC	RAB/Signalling RB	RAB
	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
		0x576 (alt. 1x0) (note) 1x576 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)= (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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS	0x576
		1x576
		2x576
		3x576
		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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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
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

6.10.2.4.1.18 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS	TF0, bits
		0x336
	TF1, bits	1x336
	TF2, bits	2x336 (alt. N/A)
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) (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 header, bit	0
MAC	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 (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 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 header, bit	0	
MAC	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 TF1, bits
		0x336 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 Number of data bits/frame
		32 480

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 TF1, bits
		0x336 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)

6.10.2.4.1.23b.1.2 Physical channel parameters

DPDCH 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS	TF0, bits TF1, bits TF2, bits
		0x336 1x336 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)

6.10.2.4.1.23b.2.2 Physical channel parameters

DPDCH Downlink	DTX position	Flexible
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	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

6.10.2.4.1.23c 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 header, bit	0	
MAC	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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (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 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
	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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1)

6.10.2.4.1.23d.1.2 Physical channel parameters

DPCCH 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 TF1, bits TF2, bits
		0x336 1x336 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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1)

6.10.2.4.1.23d.2.2 Physical channel parameters

DPCCH Downlink	DTX position	Flexible
	Spreading factor	64
	DPCCH 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 header, bit	0	
MAC	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	

6.10.2.4.1.26.1.1.2 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 header, bit	0	
MAC	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	
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 header, bit	0
MAC	MAC multiplexing	N/A

Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS	TF0, bits TF1, bits TF2, bits TF3, bits TF4, bits
		0x336 1x336 2x336 4x336 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 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 TF1, bits TF2, bits TF3, bits TF4, bits
		0x336 1x336 2x336 4x336 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (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 header, bit	0
MAC	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)

6.10.2.4.1.30.1.2 Physical channel parameters

DPDCH 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	0x336
	TF0, bits	1x336
	TF1, bits	2x336
	TF2, bits	4x336
	TF3, bits	8x336
	TF4, bits	N/A (alt. 12x336)
	TF5, bits	N/A (alt. 16x336)
	TF6, bits	10 (alt. 20)
	TTI, ms	TC
	Coding type	16
	CRC, bit	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (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)
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6.10.2.4.1.31.2.2 Physical channel parameters

DPCH Downlink	DTX position	Flexible	
	Spreading factor	8	
	Number od 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 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 header, bit	0	
MAC	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (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 header, bit	0	
MAC	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1))

6.10.2.4.1.34.1.2 Physical channel parameters

DPCCH 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	0x656
	TF0, bits	1x656
	TF1, bits	2x656
	TF2, bits	4x656
	TF3, bits	8x656
	TF4, bits	12x656
	TF5, bits	16x656
	TF6, bits	20x656
	TF7, bits	24x656
	TF8, bits	28x656
	TF9, bits	32x656
	TF10, bits	N/A (alt. 36x656)
	TF11, bits	N/A (alt. 40x656)
	TF12, bits	N/A (alt. 44x656)
	TF13, bits	N/A (alt. 48x656)
	TF14, bits	N/A (alt. 52x656)
	TF15, bits	N/A (alt. 56x656)
	TF16, bits	N/A (alt. 60x656)
	TF17, bits	N/A (alt. 64x656)
	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	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1) (alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (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)= (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, TF1, 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) (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, TF1, 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))

6.10.2.4.1.38.1.2 Physical channel parameters

DPCCH 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)= (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, 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))

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
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 header, bit	0
MAC	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)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (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 header, bit	0
MAC	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
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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)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (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 header, bit	0	
Layer 1	MAC multiplexing	N/A	
	TrCH type	DCH	
	TB sizes, bit	336	
	TFS	TF0, bits TF1, bits	0x336 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
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TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)= (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,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)
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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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	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)= (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,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)

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
	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)= (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,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)

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)= (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,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,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), (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)
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6.10.2.4.1.38c.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

6.10.2.4.1.38d Conversational / speech / UL: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 header, bit	4	4
MAC	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)= (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,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)

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)= (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,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)
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6.10.2.4.1.38d.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

6.10.2.4.1.38e 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)= (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), (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), (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)= (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), (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), (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 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

6.10.2.4.1.38f 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)= (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), (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), (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), (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)

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)= (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), (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), (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), (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)

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
	Number of data bits/slot	60
DPDCH	Number of data bits/frame	900
	Number of data bits/slot	

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)= (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),

(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,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), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,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), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1)
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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)= (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), (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), (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), (TF5,TF4,TF1,TF2,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), (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)

6.10.2.4.1.38g.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

6.10.2.4.1.38h 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)= (TF0,TF0,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF0,TF0,TF0,TF4,TF0), (TF5,TF4,TF1,TF0,TF0), (TF5,TF4,TF1,TF1,TF0), (TF5,TF4,TF1,TF2,TF0), (TF5,TF4,TF1,TF4,TF0), (TF4,TF3,TF0,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF3,TF2,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF0,TF0,TF0,TF4,TF1), (TF5,TF4,TF1,TF0,TF1), (TF5,TF4,TF1,TF1,TF1), (TF5,TF4,TF1,TF2,TF1), (TF5,TF4,TF1,TF4,TF1), (TF4,TF3,TF0,TF0,TF1), (TF4,TF3,TF0,TF1,TF1), (TF3,TF2,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1,TF1), (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)= (TF0,TF0,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF0,TF0,TF0,TF4,TF0), (TF5,TF4,TF1,TF0,TF0), (TF5,TF4,TF1,TF1,TF0), (TF5,TF4,TF1,TF2,TF0), (TF5,TF4,TF1,TF4,TF0), (TF4,TF3,TF0,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF4,TF3,TF0,TF2,TF0), (TF4,TF3,TF0,TF4,TF0), (TF3,TF2,TF0,TF0,TF0), (TF3,TF2,TF0,TF1,TF0), (TF3,TF2,TF0,TF2,TF0), (TF3,TF2,TF0,TF4,TF0), (TF2,TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF2,TF0), (TF2,TF1,TF0,TF4,TF0), (TF1,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF4,TF0), (TF0,TF0,TF0,TF1,TF1), (TF0,TF0,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF0,TF0,TF0,TF4,TF1), (TF5,TF4,TF1,TF0,TF1), (TF5,TF4,TF1,TF1,TF1), (TF5,TF4,TF1,TF2,TF1), (TF5,TF4,TF1,TF4,TF1), (TF4,TF3,TF0,TF0,TF1), (TF4,TF3,TF0,TF1,TF1), (TF4,TF3,TF0,TF2,TF1), (TF4,TF3,TF0,TF4,TF1), (TF3,TF2,TF0,TF0,TF1), (TF3,TF2,TF0,TF1,TF1), (TF3,TF2,TF0,TF2,TF1), (TF3,TF2,TF0,TF4,TF1), (TF2,TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1,TF1), (TF2,TF1,TF0,TF2,TF1), (TF2,TF1,TF0,TF4,TF1), (TF1,TF0,TF0,TF0,TF1), (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 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

6.10.2.4.1.38i 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)= (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), (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), (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), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF4,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), (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,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)

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)= (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), (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), (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), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF3,TF0), (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), (TF5,TF4,TF1,TF4,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), (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)

6.10.2.4.1.38i.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

6.10.2.4.1.38j 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)= (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), (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), (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), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF3,TF0), (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), (TF5,TF4,TF1,TF4,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), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF1,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,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)

6.10.2.4.1.38j.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
	DPDCH	Number of Pilot bits/slot
		16
		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)= (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, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, 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)

(TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF0, TF2, TF0), (TF0, TF0, TF0, TF1, TF2, TF0), (TF1, TF0, TF0, TF1, TF2, TF0), (TF2, TF1, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF2, TF2, TF0), (TF1, TF0, TF0, TF2, TF2, TF0), (TF2, TF1, TF1, TF2, 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, TF0, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, 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)= (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, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0),

$(TF_2, TF_1, TF_1, TF_2, TF_0, TF_0), (TF_0, TF_0, TF_0, TF_0, TF_1, TF_0),$
$(TF_1, TF_0, TF_0, TF_0, TF_1, TF_0), (TF_2, TF_1, TF_1, TF_0, TF_1, TF_0),$
$(TF_0, TF_0, TF_0, TF_1, TF_1, TF_0), (TF_1, TF_0, TF_0, TF_1, TF_1, TF_0),$
$(TF_2, TF_1, TF_1, TF_1, TF_1, TF_0), (TF_0, TF_0, TF_0, TF_2, TF_1, TF_0),$
$(TF_1, TF_0, TF_0, TF_2, TF_1, TF_0), (TF_2, TF_1, TF_1, TF_2, TF_1, TF_0),$
$(TF_0, TF_0, TF_0, TF_0, TF_2, TF_0), (TF_1, TF_0, TF_0, TF_0, TF_2, TF_0),$
$(TF_2, TF_1, TF_1, TF_0, TF_2, TF_0), (TF_0, TF_0, TF_0, TF_1, TF_2, TF_0),$
$(TF_1, TF_0, TF_0, TF_1, TF_2, TF_0), (TF_2, TF_1, TF_1, TF_1, TF_2, TF_0),$
$(TF_0, TF_0, TF_0, TF_2, TF_2, TF_0), (TF_1, TF_0, TF_0, TF_2, TF_2, TF_0),$
$(TF_2, TF_1, TF_1, TF_2, TF_2, TF_0), (TF_0, TF_0, TF_0, TF_1, TF_2, TF_1),$
$(TF_1, TF_0, TF_0, TF_0, TF_0, TF_1), (TF_2, TF_1, TF_1, TF_0, TF_0, TF_1),$
$(TF_0, TF_0, TF_0, TF_1, TF_0, TF_1), (TF_1, TF_0, TF_0, TF_1, TF_0, TF_1),$
$(TF_2, TF_1, TF_1, TF_0, TF_0, TF_1), (TF_0, TF_0, TF_0, TF_1, TF_0, TF_1),$
$(TF_2, TF_1, TF_1, TF_1, TF_0, TF_1), (TF_0, TF_0, TF_0, TF_2, TF_0, TF_1),$
$(TF_1, TF_0, TF_0, TF_1, TF_1, TF_1), (TF_2, TF_1, TF_1, TF_1, TF_1, TF_1),$
$(TF_0, TF_0, TF_0, TF_2, TF_1, TF_1), (TF_1, TF_0, TF_0, TF_2, TF_1, TF_1),$
$(TF_2, TF_1, TF_1, TF_2, TF_1, TF_1), (TF_0, TF_0, TF_0, TF_2, TF_2, TF_1),$
$(TF_1, TF_0, TF_0, TF_1, TF_2, TF_1), (TF_2, TF_1, TF_1, TF_0, TF_2, TF_1),$
$(TF_0, TF_0, TF_0, TF_2, TF_2, TF_1), (TF_1, TF_0, TF_0, TF_2, TF_2, TF_1),$
$(TF_2, TF_1, TF_1, TF_1, TF_2, TF_1), (TF_0, TF_0, TF_0, TF_1, TF_2, TF_1),$
$(TF_1, TF_0, TF_0, TF_2, TF_1, TF_1), (TF_2, TF_1, TF_1, TF_1, TF_2, TF_1),$

6.10.2.4.1.38k.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
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 Trans

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.39.2.1.2 Trans

See clause 6.10.2.4.1.25.2.1.1.

6.10.2.4.1.39.2.1.3 Trans

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.39.2.1.4 TFC

TFCS size 30

TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)= (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),
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	(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)
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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)= (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, TF1), (TF1, 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)

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)= (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, 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)

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)= (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, 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) (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, 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))

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 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

6.10.2.4.1.43 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)
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TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB , DCCH)= (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, TF1, TF1), (TF1, TF0, TF0, TF1, 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))
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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), (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, 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)

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

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 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)= (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, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF4, TF0), (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)

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)= (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, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, 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, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, 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 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

6.10.2.4.1.46 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)= (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, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, 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
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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)= (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, 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)

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)= (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), (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), (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), (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)

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)= (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), (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), (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), (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)

6.10.2.4.1.49a.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
DPDCH	Number of data bits/slot	8
	Number of data bits/frame	140
		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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (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 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

6.10.2.4.1.51 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.

6.10.2.4.1.51.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)= (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, TF0), (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, TF1)

6.10.2.4.1.51.1.2 Physical channel parameters

DPCCH 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)= (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, TF0), (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, TF1)

6.10.2.4.1.51.2.2 Physical channel parameters

DPCH Downlink	DTX position		Flexible
	Spreading factor		16
	DPCCH		8
	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (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	
	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

6.10.2.4.1.51b 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
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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)= (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, 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)= (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, TF0), (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, 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
	DPDCH	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)= (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, TF0), (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, 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 header, bit	4	4
MAC	MAC multiplexing	2 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	

6.10.2.4.1.56.1.1.2 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)= (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 header, bit	4	4
MAC	MAC multiplexing	2 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
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)= (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 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	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), (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 header, bit	4	4
MAC	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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (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
		Number of Pilot bits/slot
	DPDCH	Number of data bits/slot
		140
		Number of data bits/frame

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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	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)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (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 header, bit	0
MAC	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)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (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	0x656
		TF1, bits	1x656
		TF2, bits	2x656
		TF3, bits	3x656
		TF4, bits	4x656
	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)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF4,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF4,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF4,TF0,TF1), (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
		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 header, bit	0	
MAC	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 header, bit	4	4
MAC	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)= (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1) (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF2, TF0), (TF1, TF2, TF1) (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF2, TF1) (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	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

6.10.2.4.1.59.2.1.2 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)= (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1) (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF2, TF0), (TF1, TF2, TF1) (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF2, TF1) (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
		Number of data bits/slot	140
	DPDCH	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	
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	

6.10.2.4.1.60.1.1.2 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)= (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1) (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF2, TF0), (TF1, TF2, TF1) (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF2, TF1) (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)= (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1) (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1) (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1) (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	
	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	
	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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (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
	DPDCH	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 (note 2)
RLC	Logical channel type	DTCH		
	RLC mode	TM	TM	TM
	Payload sizes, bit	40, 54, 64, 72 (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 (alt. 0, 40, 54, 64, 72)	78, 113, 181	60
	TFS	TF0, bits	0x72(alternative 1x0) (note 1)	0x181
		TF1, bits	1x40	1x78
		TF2 bits	1x54	1x113
		TF3, bits	1x64	1x181
		TF4, bits	1x72	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 Iu 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)= (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)

6.10.2.4.1.62.1.1.4 TFC subset list

TFC subset list size	3
TFC subset list	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)}, 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)}, 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)}

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 (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
		TF1, bits	1x40	1x78
		TF2, bits	1x54	1x113
		TF3, bits	1x64	1x181
		TF4, bits	1x72	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 Iu 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	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	3 (alt 0, 3) (note)	
	TFS	TF0, bits TF1, bits	0x3 (alt 1x0) (note) 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)= (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,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,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,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (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 header, bit	0
MAC	MAC multiplexing	N/A

Layer 1	TrCH type	DCH	
	TB sizes, bit	336	
	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	0x336 1x336 2x336 4x336 8x336 12x336 16x336 20x336 24x336 N/A (alt 28x336) N/A (alt 32x336) N/A (alt 36x336) N/A (alt 40x336) N/A (alt 44x336) 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1) (alt . (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (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

6.10.2.4.2.2.2.1 Transport channel parameters

6.10.2.4.2.2.2.1.1 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 header, bit	18																	
MAC	MAC multiplexing	Logical channel multiplexing on a frame by frame basis																	
Layer 1	TrCH type	DSCH																	
	TB sizes, bit	354																	
	TFS	<table> <tbody> <tr><td>TF0, bits</td><td>0x354</td></tr> <tr><td>TF1, bits</td><td>1x354</td></tr> <tr><td>TF2, bits</td><td>2x354</td></tr> <tr><td>TF3, bits</td><td>4 x354</td></tr> <tr><td>TF4, bits</td><td>8 x354</td></tr> <tr><td>TF5, bits</td><td>12 x354</td></tr> <tr><td>TF6, bits</td><td>N/A (alt. 16x354)</td></tr> <tr><td>TF7, bits</td><td>N/A (alt. 20x354)</td></tr> <tr><td>TF8, bits</td><td>N/A (alt. 24x354)</td></tr> </tbody> </table>	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
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																		

6.10.2.4.2.2.2.1.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.2.2.1.3 TFCS

PDSCH	TFCS size	6 (alt.9)
	TFCS	384 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8)
DPCH Downlink associated with PDSCH	TFCS size	2
	TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.2.2.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh	Interactive or background / 384 kbps / PS RAB, DSCH
	DTX position	N/A (SingleTrCH)
	Minimum spreading factor	8
DPCH Downlink associated 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
	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 header, bit	18	
MAC	MAC multiplexing	Logical channel multiplexing on a frame by frame basis	
Layer 1	TrCH type	DSCH	
	TB sizes, bit	674	
	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	0x674 1x674 2x674 4 x674 8 x674 12x674 16x674 20x674 24x674 28x674 32x674 N/A (alt. 36x674) N/A (alt. 40x674) N/A (alt. 44x674) N/A (alt. 48x674) N/A (alt. 52x674) N/A (alt. 56x674) N/A (alt. 60x674) 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 = 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 Downlink associated with 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	Interactive or background / 2 048 kbps / PS RAB, DSCH
	DTX position	N/A (SingleTrCH)
	Minimum spreading factor	4
DPCH Downlink associated 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 Number of TPC bits/slot

	Number of Pilot bits/slot	4
DPDCH	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 6.10.2.4.2.2.2.1.1.

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 (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) = (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)

6.10.2.4.2.5.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh	Interactive or background / 384 kbps / PS RAB, DSCH
	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 + 3.4 kbps SRBs for DCCH. DCH
	DTX position	Fixed
	Spreading factor	128
PDSCH	DPCCH	Number of TFCI bits/slot
		2
		Number of TPC 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)
DPCCH	TFCS size	6
Downlink associated with PDSCH	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	Interactive or background / 2 048 kbps / PS RAB, DSCH
	DTX position	N/A (SingleTrCH)
	Minimum spreading factor	4
DPCCH Downlink associated with PDSCH	RAB or SRB, TrCh	Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH
	DTX position	Fixed
	Spreading factor	128
	DPCCH	Number of TFCI bits/slot
		2
		Number of TPC bits/slot
		2
		Number of Pilot bits/slot
DPDCH		4
	DPDCH	Number of data bits/slot
		32
		Number of data bits/frame
		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	PCH
	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 TF1, bits
		0x360 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 High prio	NAS_DT 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) = (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), [TF1, TF1] (note) (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

RLC	RAB/Signalling RB	RAB	RAB
	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) = (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), [TF1, TF1] (note) (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 (alt 6, 7, 8 or 9 for 80 bits PCH TrBlk size and TF3 not used) (alt 6, 7, 8 or 9 for 240 bits PCH TrBlk size and TF3 used) (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) = (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0] (see note), (TF0, TF0, TF1), [TF0, TF1, TF1] (see note) for 240 bits PCH TrBlk size and TF3 not used (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0] (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) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0] (see note), [TF0, TF3, TF0] (see note), (TF0, TF0, TF1), [TF0, TF1, TF1] (see note) for 240 bits PCH TrBlk size and TF3 used) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0] (see note), [TF0, TF3, TF0] (see note), [TF1, TF3, TF0] (see note), (TF0, TF0, TF1), [TF1, TF0, TF1] (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, bts
		0x168
	TTI, ms	1x168
		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	64	
	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	0x664 1x664 2x664 3x664 4x664 5x664 6x664 7x664 8x664 9x664 10x664 11x664 12x664 13x664 14x664 15x664 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	64	
	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
		1x160
	TTI, ms	20
		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) = (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, TF0)
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/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT 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 (Rel6, see 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/Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio
	Max data rate, bps	16 000 (alt. 32 000)	8 300 /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	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 (Rel6, see Note)	168	168	168	168
	TFS	TF0, bits		1x168			
		TF1, bits		1x360			
		TF2, bits (Rel 6, see Note)		1x240			
	TTI, ms			20 (alt. 10)			
	Coding type			CC 1/2			
	CRC, bit			16			
	Max number of bits/TTI after channel coding	768	384/528 (Rel 6, see Note)	384	384	384	384
	Max number of bits/ Radio frame before rate matching	384 (alt. 768)	192/264 Rel 6 (alt. 384/5 28 Rel 6, see Note)	192 (alt. 384)	192 (alt. 384)	192 (alt. 384)	192 (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/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

	RAB/signalling RB	RAB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	
Higher layer	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

		Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2	Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2	Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2
Higher layer	RAB/Signalling RB		RAB	
	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 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, 16QAM	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 64QAM
	Applicable with MIMO	No	Yes	Yes
	Applicable with Dual-Cell HSDPA	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 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.

6.10.2.4.5.1.2.1.2 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)= (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), (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, 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))

6.10.2.4.5.3.1.2 Physical channel parameters

DPCCH 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)= (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, TF5, TF0), (TF1, TF5, TF0), (TF0, TF6, TF0), (TF1, TF6, TF0), (TF0, TF7, TF0), (TF1, TF7, TF0), (TF0, TF8, TF0), (TF1, TF8, 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, TF5, TF1), (TF1, TF5, TF1), (TF0, TF6, TF1), (TF1, TF6, TF1), (TF0, TF7, TF1), (TF1, TF7, TF1), (TF0, TF8, TF1), (TF1, TF8, TF1) (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, TF5, TF0), (TF1, TF5, 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, TF5, TF1), (TF1, TF5, TF1))

6.10.2.4.5.4.1.2 Physical channel parameters

DPCCH 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 Uplink

6.10.2.4.5.5.1.1 Transport channel parameters

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
	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	

6.10.2.4.5.5.1.1.2 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (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.

6.10.2.4.5.5.2.2.2 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1)

6.10.2.4.1.6.1.2 Physical channel parameters

DPCH	Min spreading factor	4
Uplink	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 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2	Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2	Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) 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 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, 16QAM	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 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)= (TF0,TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1,TF0), (TF0,TF0,TF0,TF2,TF1,TF0), (TF1,TF0,TF0,TF2,TF1,TF0), (TF2,TF1,TF1,TF2,TF1,TF0), (TF0,TF0,TF0,TF3,TF1,TF0), (TF1,TF0,TF0,TF3,TF1,TF0), (TF2,TF1,TF1,TF3,TF1,TF0), (TF0,TF0,TF0,TF2,TF2,TF0), (TF1,TF0,TF0,TF2,TF2,TF0), (TF2,TF1,TF1,TF2,TF2,TF0), (TF0,TF0,TF0,TF3,TF2,TF0), (TF1,TF0,TF0,TF3,TF2,TF0), (TF2,TF1,TF1,TF3,TF2,TF0), (TF0,TF0,TF0,TF1,TF3,TF0), (TF1,TF0,TF0,TF1,TF3,TF0), (TF2,TF1,TF1,TF1,TF3,TF0), (TF0,TF0,TF0,TF2,TF3,TF0), (TF1,TF0,TF0,TF2,TF3,TF0), (TF2,TF1,TF1,TF2,TF3,TF0), (TF0,TF0,TF0,TF3,TF3,TF0), (TF1,TF0,TF0,TF3,TF3,TF0), (TF2,TF1,TF1,TF3,TF3,TF0), (TF0,TF0,TF0,TF2,TF4,TF0), (TF1,TF0,TF0,TF2,TF4,TF0), (TF2,TF1,TF1,TF2,TF4,TF0), (TF0,TF0,TF0,TF3,TF4,TF0), (TF1,TF0,TF0,TF3,TF4,TF0), (TF2,TF1,TF1,TF3,TF4,TF0), (TF0,TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF0,TF1), (TF0,TF0,TF0,TF2,TF1,TF1), (TF1,TF0,TF0,TF2,TF1,TF1), (TF2,TF1,TF1,TF2,TF1,TF1), (TF0,TF0,TF0,TF3,TF1,TF1), (TF1,TF0,TF0,TF3,TF1,TF1), (TF2,TF1,TF1,TF3,TF1,TF1), (TF0,TF0,TF0,TF2,TF2,TF1), (TF1,TF0,TF0,TF2,TF2,TF1), (TF2,TF1,TF1,TF2,TF2,TF1), (TF0,TF0,TF0,TF3,TF2,TF1), (TF1,TF0,TF0,TF3,TF2,TF1), (TF2,TF1,TF1,TF3,TF2,TF1), (TF0,TF0,TF0,TF1,TF3,TF1), (TF1,TF0,TF0,TF1,TF3,TF1), (TF2,TF1,TF1,TF1,TF3,TF1), (TF0,TF0,TF0,TF2,TF3,TF1), (TF1,TF0,TF0,TF2,TF3,TF1), (TF2,TF1,TF1,TF2,TF3,TF1), (TF0,TF0,TF0,TF3,TF3,TF1), (TF1,TF0,TF0,TF3,TF3,TF1), (TF2,TF1,TF1,TF3,TF3,TF1), (TF0,TF0,TF0,TF2,TF4,TF1), (TF1,TF0,TF0,TF2,TF4,TF1), (TF2,TF1,TF1,TF2,TF4,TF1), (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

DPCCH	Min spreading factor	4
Uplink	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 TF1, bits TF2, bits TF3, bits TF4, bits TF5, bits
		0x336 1x336 2x336 4x336 8x336 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	((RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (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))

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,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,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF0,TF0,TF5,TF0), (TF1,TF0,TF0,TF5,TF0), (TF2,TF1,TF0,TF5,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,TF0), (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,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,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

DPCCH 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	0x336
		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)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

6.10.2.4.5.9.1.2 Physical channel parameters

DPCH Uplink	Min spreading factor	64
	Max number of DPDCH data bits/radio frame	600
	Puncturing Limit	0.80

- 6.10.2.4.5.9.2.1.2 Downlink
- 6.10.2.4.5.9.2.1.2.1 Transport channel parameters
- 6.10.2.4.5.9.2.1.2.1.1 Transport channel parameters for HS-DSCH
- 6.10.2.4.5.9.2.1.2.1.1.1 MAC-d flow parameters for Streaming MBMS PTP / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

		Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2	Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2	Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2
Higher layer	RAB/Signalling RB	RAB		
RLC	Logical channel type	DTCH		
	RLC mode	AM		
	Payload sizes, bit	640	640	Flexible up to 12000 (NOTE 3)
	Max data rate, bps	depends on UE category 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, 16QAM	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 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>				

6.10.2.4.5.9.2.1.2.1 Transport channel parameters for DCH

6.10.2.4.5.9.2.1.2.1.1 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)= (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)

6.10.2.4.5.10.1.2 Physical channel parameters

DPCH 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 Fixed RLC + MAC-e/es (Rel-6 and later) NOTE 2	Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) NOTE 2	Alt 3 Flexible RLC + MAC-i/is (Rel-8 and later releases) NOTE 2		
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 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	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	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.						
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.						

6.10.2.4.6.1.1.1.2 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
	TTI	10 ms
	Max Data Rate	0.711 Mbps

UE E-DPDCH Physical Layer category 2:

E-DPDCH	Number of processes	4	8
	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
	TTI	10 ms
	Max Data Rate	1.4484 Mbps

UE E-DPDCH Physical Layer category 4:

E-DPDCH	Number of processes	4	8
	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
	TTI	10 ms
	Max Data Rate	2.0 Mbps

UE E-DPDCH Physical Layer category 6:

E-DPDCH	Number of processes	4	8
	TTI	10 ms	2 ms
	Max Data Rate	2.0 Mbps	5.742Mbps

UE E-DPDCH Physical Layer category 7:

E-DPDCH	Number of processes	4	8
	TTI	10 ms	2 ms
	Max Data Rate	2.0 Mbps	11.498 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
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		Alt 1 Fixed RLC + MAC-e/es (Rel-6 and later releases) NOTE 2				Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) 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							
MAC	AMD PDU header, bit	8	16	16	16	8	16	16	16
	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
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6.10.2.4.6.3.1 Uplink

See clause 6.10.2.4.6.1.1.

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 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2				Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) 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)															
MAC	AMD PDU header, bit	8	16	16	16	8	16	16	16								
	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 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.

- 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 Fixed RLC + MAC-e/es (Rel-6 and later) NOTE 2	Alt 2 Flexible RLC + MAC-i/is (Rel-8 and later releases) NOTE 2
Higher layer	RAB/Signalling RB	RAB	
PDCP	PDCP header size, bit	0	
RLC	Logical channel type	DTCH	
	RLC mode	UM	
	Payload sizes, bit	88, 104, 136, 152, 168, 184, 200, 216, 280, 288, 304, 336 (alt 328)	Flexible from 88 up to 12000 (NOTE 3)
	Max data rate, bps	Depends on UE category and TTI	
	UMD PDU header, bit	8	
	MAC multiplexing	N/A	
MAC	MAC-d PDU size, bit	96, 112 , 144, 160, 176, 192, 208, 224, 288, 296, 312, 344 (alt 336)	Flexible from 96 up to 12008
	MAC type	MAC-e/es	MAC-i/is
	MAC-e/es / MAC-i/is header fixed part, bit	18	24
	CRC, bit	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 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.			

6.10.2.4.6.6.1.1.1.2 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.

6.10.2.4.6.6.1.1.1.3 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.

6.10.2.4.6.6.1.2 Physical channel parameters

6.10.2.4.6.6.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.6.2 Downlink

6.10.2.4.6.6.2.1 Transport channel parameters

6.10.2.4.6.6.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.6.6.2.1.1.1 MAC-d flow#1 parameters for Conversational / unknown or speech / DL: [max bit rate depending on UE category] kbps / PS RAB

		Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2	Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2	Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2
Higher Layer	RAB/Signalling RB	RAB		
RLC	Logical channel type	DTCH		
	RLC mode	UM		
	Payload sizes, bit	104, 136, 152, 168, 184, 216, 288, 336 (alt 328)	104, 136, 152, 168, 184, 216, 288, 336 (alt 328)	Flexible up to 12000 (NOTE 3)
	Max data rate, bps	depends on UE category NOTE1		
MAC	UMD PDU header, bit	8	8	8
	MAC-d header, bit	0	0	0
	MAC multiplexing	N/A	N/A	N/A
	MAC-d PDU size, bit	112 , 144, 160, 176, 192, 224, 296, 344 (alt 336)	112 , 144, 160, 176, 192, 224, 296, 344 (alt 336)	Flexible
	MAC-hs Type	MAC-hs	MAC-ehs	MAC-ehs
Layer 1	MAC-hs/ehs header fixed part, bit	21	24	24
	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, 16QAM	QPSK, 16QAM, 64QAM	QPSK, 16QAM, 64QAM
	Applicable with MIMO	No	Yes	Yes
<p>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]).</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>				

6.10.2.4.6.6.2.1.1.2 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.

6.10.2.4.6.6.2.1.1.3 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.

6.10.2.4.6.6.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.10.2.4.6.6.2.2.1 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 Fixed RLC + MAC-e/es (Rel-6 and later) NOTE 2	Alt 2 Flexible RLC + MAC-i/is (Rel-8 and later releases) NOTE 2
Higher layer	RAB/Signalling RB	RAB	
PDCP	PDCP header size, bit	0	
RLC	Logical channel type	DTCH	
	RLC mode	UM	
	Payload sizes, bit	88, 104, 136, 152, 168, 184, 200, 216, 280, 288, 304, 328 (alt 336)	Flexible from 88 up to 12000 (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, 176, 192, 208, 224, 288, 296, 312, 336 (alt 344)	Flexible from 96 up to 12008
	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 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 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.			

- 6.10.2.4.6.7.1.1.2 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.

- 6.10.2.4.6.7.1.1.3 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.

- 6.10.2.4.6.7.1.1.4 MAC-d flow #4 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.2.

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

		Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2	Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2	Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2
Higher Layer	RAB/Signalling RB		RAB	
RLC	Logical channel type		DTCH	
	RLC mode		UM	
	Payload sizes, bit	104, 136, 152, 168, 184, 216, 288, 328 (alt 336)	104, 136, 152, 168, 184, 216, 288, 328 (alt 336)	Flexible up to 12000 (NOTE 3)
	Max data rate, bps		depends on UE category 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, 176, 192, 224, 296, 336 (alt 344)	112 , 144, 160, 176, 192, 224, 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, 16QAM	QPSK, 16QAM, 64QAM	QPSK, 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.				

6.10.2.4.6.7.2.1.1.2 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

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 Fixed RLC + MAC-e/es (Rel-6 and later) NOTE 3	Alt 2 Flexible RLC + MAC-i/is (Rel-8 and later releases) NOTE 3
Higher layer	RAB/Signalling RB	RAB	
PDCP	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 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.			

6.10.2.4.6.9.1.1.1.2 MAC-d flow #2 parameters for UL: [max bit rate depending on UE category and TTI]
SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.2.

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

		Alt 1 RLC + MAC-hs (Rel-5 and later releases) NOTE2	Alt 2 RLC + MAC-ehs (Rel-7 and later releases) NOTE2
Higher Layer	RAB/Signalling RB		RAB
PDCP	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 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 Fixed RLC + MAC-e/es (Rel-6 and later) NOTE 3	Alt 2 Flexible RLC + MAC-i/is (Rel-8 and later releases) NOTE 3		
Higher layer	RAB/Signalling RB	RAB			
PDCP	Header size, bit	8			
RLC	Logical channel type	DTCH			
	RLC mode	UM			
	Payload sizes, bit	48, 144, 192, 264	Flexible from 48 up to up to 12000 (NOTE 4)		
	Max data rate, bps	Depends on UE category and TTI			
MAC	UMD PDU header, bit	8			
	MAC multiplexing	N/A			
	MAC-d PDU size, bit	56, 152, 200, 272 (non-scheduled) NOTE 1	Flexible		
	MAC type	MAC-e/es	MAC-i/is		
Layer 1	MAC-e/es / MAC-i/is header fixed part, bit	18	24		
	TrCH type	E-DCH			
	TTI	10ms (alt. 2ms) (NOTE 2)			
	Coding type	TC			
CRC, bit					
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 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.					

- 6.10.2.4.6.10.1.1.1.2. 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

		Alt 1 RLC + MAC-hs (Rel-5 and later releases) NOTE2	Alt 2 RLC + MAC-ehs (Rel-7 and later releases) NOTE2
Higher Layer	RAB/Signalling RB		RAB
PDCP	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 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, 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.			

6.10.2.4.6.10.2.1.1.2 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

		Fixed RLC + MAC-ehs (Rel-7 and later releases)	
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 (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-ehs 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 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 4	Alt 2 Flexible RLC + MAC-ehs (Rel-7 and later releases) 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 (Note 2)
	Max data rate, bps	depends on UE category (NOTE 1)	depends on UE category (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 ^[3]	SSD ^[3]	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

RAB				Residual BER ^[3]	Services
Traffic class ^[3]	SSD ^[3]	Max. rate, kbps	CS/PS		
Conversational	Speech	UL:4.75-12.2 DL:4.75-12.2	CS	5x10 ⁻⁴ , 1x10 ⁻³ , 5x10 ⁻³	AMR speech
Conversational	Unknown	UL:64 DL:64	CS	1x10 ⁻⁴ or 1x10 ⁻⁶	UDI 1B, 64k 3G-324M ^[4]
Conversational	Unknown	UL:32 DL:32	CS	1x10 ⁻⁴ or 1x10 ⁻⁶	32k 3G-324M ^[4]
Conversational	Unknown	UL:28.8 DL:28.8	CS	1x10 ⁻³	Transparent modem
Streaming	Unknown	UL:14.4 DL:14.4	CS	1x10 ⁻³	FAX ^[6]
Streaming	Unknown	UL:28.8 DL:28.8	CS	1x10 ⁻³	FAX ^[6] PIAFS 32 kbps
Streaming	Unknown	UL:57.6 DL:57.6	CS	1x10 ⁻³	Modem ^[6] , FTM ^[5] , PIAFS 64 kbps
Streaming	Unknown	UL:64-128 or DL:64-384	CS	1x10 ⁻³ or 1x10 ⁻⁴	Streaming video, uni-directional
Interactive or Background	N/A	UL:32-384 DL:8-2048	PS	1x10 ⁻³ or 1x10 ⁻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 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 (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.

6.10.3.4.1.1.1.1.2 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
	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.

6.10.3.4.1.1.2 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 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 (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
	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.

6.10.3.4.1.1a 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 High priority	NAS_DT Low priority			
RLC	Logical channel type	DCCCH	DCCCH	DCCCH	DCCCH			
	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
	TFCI 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 TFCI 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 High priority	NAS_DT Low priority

RLC	Logical channel type	DCCCH	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						

6.10.3.4.1.1a.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = (TF0), (TF1)
NOTE: The first TFC is optional.	

6.10.3.4.1.1a.2.2 Physical channel parameters

DPCCH 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
	TFCI 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 TFCI 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 High priority	NAS_DT Low priority			
RLC	Logical channel type	DCCCH	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
	TFCI code word	8 bits
	TPC	2 bit
	Puncturing Limit	1

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits.

6.10.3.4.1.2.2 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 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	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

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.

6.10.3.4.1.3 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 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	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 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
	TFCI code word	8 bits
	TPC	2 bits
	Puncturing Limit	0.88

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits.

6.10.3.4.1.3.2 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 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	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 (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(alternate 1x0) (note)	0x103
	TF1, bits	1x39	1x103
	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]).		

6.10.3.4.1.4.1.1.2 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (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 header, bit	0		
Layer 1	MAC multiplexing	N/A		
	TrCH type	DCH	DCH	DCH
	TB sizes, bit	39,81 (alt. 0,39,81)	103	60
	TFS	TF0, bits	0x81 (alt. 1x0) (note)	0x103
		TF1, bits	1x39	1x103
		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: 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (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
	TFCI code word	16 bits
	Puncturing limit	0.76

6.10.3.4.1.4.4a 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 (alt. 0, 39, 42, 55, 75, 81)	53, 63, 84, 103	60
	Max data rate, bps	12 200		
	TrD PDU header, bit	0		
	MAC header, bit	0		
MAC	MAC multiplexing	N/A		
	TrCH type	DCH	DCH	DCH
	TB sizes, bit	39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81)	53, 63, 84, 103	60
	TFS	TF0, bits TF1, bits TF2 bits TF3, bits TF4, bits TF5, bits	0x81(alternative 1x0) (note) 1x39 1x42 1x55 1x75 1x81	0x103 1x53 1x63 1x84 1x103 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)= (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)

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
	TFCI 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 (alt. 0, 39, 42, 55, 75, 81)	39, 42, 55, 75, 81	53, 63, 84, 103	60		
		(alt. 0, 39, 42, 55, 75, 81)				
	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 (alt. 0, 39, 42, 55, 75, 81)	39, 42, 55, 75, 81	53, 63, 84, 103	60		
		(alt. 0, 39, 42, 55, 75, 81)				
	TFS	TF0, bits 0x81(alternative 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]).

6.10.3.4.1.4a.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)= (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)

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
	TFCI code word	16 bits
	Puncturing limit	0.76

6.10.3.4.1.5 Conversational / speech / UL: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 (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
		TF1, bits	1x39	1x99
		TF2, 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]).

6.10.3.4.1.5.1.1.2 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (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
		TF1, bits	1x39	1x99
		TF2, 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: 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (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
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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 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40
	Max data rate, bps		10 200	
	TrD PDU header, bit		0	
			N/A	
MAC	MAC header, bit		0	
	MAC multiplexing			
Layer 1	TrCH type	DCH	DCH	DCH
	TB sizes, bit	39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40
	TFS	TF0, bits TF1, bits TF2, bits TF3, bits TF4, bits TF5, bits	0x65 (alt. 1x0) (note) 1x39 1x42 1x55 1x58 1x65	0x99 1x53 1x63 1x76 1x99 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		255	321
	Max number of bits/radio frame before rate matching		128	161
	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)= (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)

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

DPCCH 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 (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 header, bit		0	
Layer 1	MAC multiplexing		N/A	
	TrCH type	DCH	DCH	DCH
	TB sizes, bit	39, 42, 55, 58, 65 (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)= (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)
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
	TFCI 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 header, bit	0	
MAC	MAC multiplexing	N/A	
	TrCH type	DCH	DCH
Layer 1	TB sizes, bit	39, 75 (alt. 0, 39, 75)	84
	TFS	0x75 (alt. 1x0) (note)	0x84
		1x39	1x84
		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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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 header, bit	0	
MAC	MAC multiplexing	N/A	
	TrCH type	DCH	DCH
Layer 1	TB sizes, bit	39, 75 (alt. 0, 39, 75)	84
	TFS	0x75 (alt. 1x0) (note)	0x84
		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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI 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	TF0, bits 0x61 (alt. 1x0) (note)	0x87
		TF1, bits 1x39	1x87
		TF2, 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: 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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

DPCCH 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	TF0, bits 0x61(alternative 1x0) (note)	0x87
		TF1, bits 1x39	1x87
		TF2, 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: 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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 (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 TF1, bits TF2, bits TF3, bits TF4, bits TF5, bits	0x61 (alt. 1x0) (note)
			0x87
			1x39
			1x42
			1x55
			1x58
			1x61
			N/A
			20
			20
			CC 1/3
			CC 1/3
			12
			N/A
			243
			285
			122
			143
			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)= (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.	

6.10.3.4.1.7a.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
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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 (alt. 0, 39, 42, 55, 58, 61)	53, 63, 76, 87
	Max data rate, bps	7 400	
	TrD PDU header, bit	0	
	MAC header, bit	0	
MAC	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)	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.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)= (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.

6.10.3.4.1.7a.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	TF0, bits TF1, bits TF2, bits	0x58 (alt. 1x0) (note) 1x39 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: 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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 TF1, bits TF2, bits	0x58 (alt.1x0) (note) 1x39 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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 header, bit	0	
Layer 1	MAC multiplexing	N/A	
	TrCH type	DCH	DCH
	TB sizes, bit	39, 55 (alt. 0, 39, 55)	63
	TFS	TF0, bits TF1, bits TF2, bits	0x55 (alt. 1x0) (note) 1x39 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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	
	TFCI 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 header, bit	0	
MAC	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)	0x63
	TF0, bits	1x39	1x63
	TF1, bits	1x55	N/A
	TF2, bits	20	20
	TTI, ms	CC 1/3	CC 1/3
	Coding type	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI code word	16 bits
	Puncturing limit	0.56

6.10.3.4.1.10 Conversational / speech / UL: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 header, bit	0	
MAC	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)	0x54
		1x39	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: 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.

6.10.3.4.1.10.1.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI 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 header, bit	0	
MAC	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)	0x54
		TF1, bits 1x39	1x54
		TF2, bits 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]).			

6.10.3.4.1.10.2.1.2 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI code word	16 bits
	Puncturing limit	0.72

6.10.3.4.1.11 Conversational / speech / UL: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	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]).			

6.10.3.4.1.11.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.

6.10.3.4.1.11.1.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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)	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: 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
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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)= (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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.76

NOTE: In case the first TFC in a TFCS is not configured, the TFCI 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)= (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
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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	0.40

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.10.3.4.1.13 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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	640
	TFS	TF0, bits
		0x640
	TTI, ms	2x640
		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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.10.3.4.1.13.2 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 TF1, bits
		0x640 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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.68
NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.		

6.10.3.4.1.14.2 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	640
	TFS	TF0, bits TF1, bits
		0x640 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
	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.

6.10.3.4.1.15 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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	576
	TFS	TF0, 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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.76

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.10.3.4.1.15.2 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
	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
	TFCI code word	16 bits
	Puncturing limit	0.80

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.10.3.4.1.16 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	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)= (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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.10.3.4.1.16.2 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS	0x576
	TF0, bits	1x576
	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)= (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
	TFCI code word	16 bits
	Puncturing limit	0.44

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.10.3.4.1.17 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS	0x576
	TF0, bits	1x576
	TF1, bits	2x576
	TF2, bits	3x576
	TF3, bits	4x576
	TF4, bits	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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
	TFCI 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 header, bit	0
MAC	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
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 header, bit	0	
MAC	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)= (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 header, bit	0	
MAC	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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	336 (alt. 144)
	TFS	0x336 (alt. 0x144)
		1x336 (alt. 1x144)
		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)
Layer 1	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)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) (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

DPCCH 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)
		TF1, bits	1x336 (alt. 1x144)
		TF2, bits	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)= (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

DPCCH 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	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	
	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)= (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
	TFCI 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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (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.	

6.10.3.4.1.23c.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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (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.

6.10.3.4.1.23c.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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336 (alt. 144)
	TFS	0x336 (alt. 0x144)
	TF0, bits	1x336 (alt 1x144)
	TF1, bits	2x336 (alt. 5x144)
	TF2, bits	
	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)= (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
		0x336
		TF1, bits
		1x336
		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

6.10.3.4.1.23d.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)= (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 header, bit	0	
MAC	MAC multiplexing	N/A	
	TrCH type	DCH	
Layer 1	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	
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 + 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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
Layer 1	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 + SF4 x 1 code x 1 time slot	SF2 x 1 code x 1 time slot + 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS	0x336
	TF0, 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 + 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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	336 (alt. 144)
	TFS	0x336 (alt. 0x144)
	TF0, bits	1x336 (alt. 1x144)
	TF1, bits	2x336 (alt. 7x144)
	TF2, bits	4x336 (alt 14x144)
	TF3, bits	8x336 (alt. 20x144)
	TTI, ms	20
	Coding type	TC
Layer 1	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 + 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 header, bit	0	
Layer 1	MAC multiplexing	N/A	
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (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 header, bit	0	
MAC	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (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

DPCCH 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
	TFCI 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (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))

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	0x336
	TF0, bits	1x336
	TF1, bits	2x336
	TF2, bits	4x336
	TF3, bits	8x336
	TF4, bits	12x336
	TF5, bits	N/A (alt. 16x336)
	TF6, bits	N/A (alt. 20x336)
	TF7, bits	N/A (alt. 24x336)
	TF8, bits	10 (alt. 20)
	TTI, ms	TC
	Coding type	16
	CRC, bit	12 684 (alt. 25 368)
	Max number of bits/TTI after channel coding	12 684 (alt. 12 684)
	Max number of bits/radio frame before rate matching	110 to 150
	RM attribute	

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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (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 + SF16 x 4 codes x 1 time slot (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)
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TFCS	(384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1))
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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 + SF4 x 1 code x 2 timeslots (alt. {SF2 x 1 code + SF4 x 1 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	656
	TFS	TF0, bits
		0x656
		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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1) (alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1), (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

DPCCH 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 + 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)= (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, 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)

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)= (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, 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)

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
	TFCI 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)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (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
	TFCI 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 header, bit	0
MAC	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)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (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
	TFCI 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)= (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,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) (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,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))
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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)= (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,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)

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)= (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,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) (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,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))

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)= (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,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))

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 header, bit	4	4
MAC	MAC multiplexing	2 logical channel multiplexing	
	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)= (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,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)

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 header, bit	4	4
MAC	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	

6.10.3.4.1.38d.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)= (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,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)

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)= (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), (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), (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)= (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), (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), (TF5,TF4,TF1,TF0,TF1), (TF0,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.	

6.10.3.4.1.38e.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)= (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), (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,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), (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,TF0,TF1) (alt. (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), (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,TF0,TF0), (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), (TF5,TF4,TF1,TF2,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), (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))

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
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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)= (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), (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), (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), (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)

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)= (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), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,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), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,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), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) (alt. (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), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,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), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,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), (TF3,TF2,TF0,TF2,TF1), (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 + 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)= (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), (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), (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), (TF5,TF4,TF1,TF2,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), (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)

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
	TFCI 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)= (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), (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), (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), (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,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,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 + 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)= (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), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF1,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,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), (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,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (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)= (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), (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), (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), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF4,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), (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,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.

6.10.3.4.1.38i.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)= (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), (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), (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), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF4,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), (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,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)

(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF3,TF0), (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), (TF5,TF4,TF1,TF4,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), (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.

6.10.3.4.1.38i.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)= (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), (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), (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), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF3,TF0), (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), (TF5,TF4,TF1,TF4,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), (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

DPCCH 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)= (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, 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)

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

DPCCH 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
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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)= (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, TF1), (TF1, 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)

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)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (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)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (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
	TFCI code word	16 bit
	TPC	2 bits
	Puncturing Limit	0.64 (alt. 0.56)

6.10.3.4.1.40.1.2.2.2 Physical channel (two CCTrCH case)

6.10.3.4.1.40.1.2.2.2.1 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
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.68

6.10.3.4.1.40.1.2.2.2.2 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
	TFCI 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)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, 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)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (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)= (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, 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)

NOTE:	In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.
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6.10.3.4.1.41.2.1.4.2.2 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)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (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)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (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)= (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, 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) (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, 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))

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 + 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	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (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, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, 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))

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)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, 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)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0) (alt. (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (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
	TFCI 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
	TFCI 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
	TFCI 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)= (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, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF4, 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, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, 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} 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

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.44.2.2 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)= (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, 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)

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)= (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, TF0, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, 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, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, 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)= (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, TF0, 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)

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)= (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, 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)

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
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TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (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), (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), (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), (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)
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)= (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), (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), (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), (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)

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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (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 + 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (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)= (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, TF0), (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, 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

DPCCH 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)= (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, TF0), (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, 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

DPCCH 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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) (alt. (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (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.

6.10.3.4.1.51a.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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (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)= (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, TF0), (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, 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} + {SF16 x 5 codes x 1 time slot}
	Max. Number of data bits/radio frame	3 156 bits
	TFCI 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 128 kbps RAB, DCCH)= (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, TF0), (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, 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
	TFCI 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)= ((TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1)) (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
	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).

6.10.3.4.1.56.2 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	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	
	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)= (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
	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.

6.10.3.4.1.57 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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (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 header, bit	4	4
MAC	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	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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (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	0x336
		TF1, bits	1x336
	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)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1) (alt. (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))

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 + SF16 x 1 code 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 header, bit	0	
MAC	MAC multiplexing	N/A	
	TrCH type	DCH	
Layer 1	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	
	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)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (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

DPCCH 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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) (alt. (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (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.

6.10.3.4.1.61.1.2 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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (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 SHCCCH

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 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCCH mapped on USCH

Higher layer	RAB/Signalling RB	RAB	SRB#5
RLC	Logical channel type	DTCH	SHCCCH
	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 header, bit	1	1
MAC	MAC multiplexing	N/A	N/A
	TrCH type	USCH	USCH
	TB sizes, bit	337 (alt. 145)	169
	TFS	0x337 (alt. 0x145)	0x169
		1x337 (alt. 1x145)	1x169
		2x337 (alt. 3x145)	N/A
		3x337 (alt. 7x145)	N/A
		4x337 (alt. 10x145)	N/A
	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 High prio	NAS_DT Low prio			
RLC	Logical channel type	DCCCH	DCCCH	DCCCH	DCCCH			
	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (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	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	DCCCH	DCCCH	DCCH	DCCCH	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	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										

6.10.3.4.2.1.1.4.2 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/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT 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	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	DCCCH	DCCCH	DCCCH	DCCCH			
	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (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 High prio	NAS_DT 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 (note)	128	128	128	160	168	
	Max data rate, bps	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	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/ 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							
	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 (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 (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	0x169
		TF1, bits	1x337	1x169
		TF2, bits	2x337	N/A
		TF3, bits	4x337	N/A
		TF4, bits	8x337	N/A
		TF5, bits	12x337	N/A
		TF6, bits	N/A (alt. 16x337)	N/A
		TF7, bits	N/A (alt. 20x337)	N/A
		TF8, bits	N/A (alt. 24x337)	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	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	

6.10.3.4.2.2.2.1.2 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.

6.10.3.4.2.2.2.1.3 TFCS for DSCH

TFCS size	24 (alt. 36)
TFCS	(384 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (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), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1))

6.10.3.4.2.2.2.1.4 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.

6.10.3.4.2.2.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.5.

6.10.3.4.2.2.2.2 Physical channel parameters

6.10.3.4.2.2.2.2.1 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

6.10.3.4.2.2.2.2.2 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
	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (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), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0, TF0), (TF11, TF0, TF0), (TF12, TF0, TF0), (TF13, TF0, TF0), (TF14, TF0, TF0), (TF15, TF0, TF0), (TF16, TF0, TF0), (TF17, TF0, TF0), (TF18, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (TF10, TF1, TF0), (TF11, TF1, TF0), (TF12, TF1, TF0), (TF13, TF1, TF0), (TF14, TF1, TF0), (TF15, TF1, TF0), (TF16, TF1, TF0), (TF17, TF1, TF0), (TF18, TF1, TF0), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1), (TF10, TF1, TF1), (TF11, TF1, TF1), (TF12, TF1, TF1), (TF13, TF1, TF1), (TF14, TF1, TF1), (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 6.10.3.4.2.1.2.1.45.1.

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 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 header, bit	1	1
MAC	MAC multiplexing	N/A	N/A
	TrCH type	USCH	USCH
Layer 1	TB sizes, bit	337 (alt. 145)	169
	TFS	0x337 (alt. 0x145)	0x169
		1x337 (alt. 1x145)	1x169

	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 6.10.3.4.2.1.1.2.

6.10.3.4.2.4.1.1.3 TFCS for USCH

TFCS size	36
TFCS	(384 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (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) (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1)

6.10.3.4.2.4.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.4.

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 6.10.3.4.2.1.2.2.

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
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	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (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	TF0, bits	
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (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))

6.10.3.4.3.1.2.1.6 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1), (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 (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 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	160	136 or 120 (note)	128	128	128	168

	Max data rate, bps	32 000 (alt. 16 000)	27 200 or 24 000 (alt. 24 000 or 12 000)	25 600 (alt. 12 800)	25 600 (alt. 12 800)	25 600 (alt. 12 800)	33 600 (alt. 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) = (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 3 2kbps 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 (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	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

	MAC multiplexing	2 logical channel multiplexing
Layer 1	TrCH type	FACH
	TB sizes, bit	363
	TFS	TF0, bits TF1, bits TF2, bits
		0x363 1x363 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) = (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.	

6.10.3.4.4.2a.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot (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) = (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 (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)
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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) = (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) (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 (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) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF1, TF3), (TF1, TF4) (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 (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 header, bit	3	
MAC	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 header, bit	3	3
MAC	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/BCCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0)

6.10.3.4.4.4.2 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

6.10.3.4.4.11 497.6 kbps 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 High priority	NAS_DT 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 User of Radio Bearer	RAB Interactive/ Background RAB	SRB#0 RRC	SRB#1 RRC	SRB#2 RRC	SRB#3 NAS_DT High priority	SRB#4 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					

6.10.3.4.5.2.2 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
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layer	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							

6.10.3.4.5.3.2 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 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
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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	

Max Data Rate	3.6 Mbps
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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)= (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, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF5, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, 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, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, 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, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF8, TF0), (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, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, 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

6.10.3.4.6.4.2.1 Downlink

6.10.3.4.6.4.2.1.1 Transport channel parameters

6.10.3.4.6.4.2.1.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.4.2.1.1.1.1 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

6.10.3.4.6.6.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.6.6.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

6.10.3.4.6.6.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.6.6.1.1.4 TFCS

TFCS size	24 (alt. 36)
TFCS	(64 kbps RAB, 384 kbps RAB , DCCH)= (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, TF5, TF0), (TF1, TF5, TF0), (TF0, TF0, TF1), (TF1, TF4, 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, TF5, TF1), (TF1, TF5, TF1) (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, TF5, TF0), (TF1, TF5, TF0), (TF0, TF6, TF0), (TF1, TF6, TF0), (TF0, TF7, TF0), (TF1, TF7, TF0), (TF0, TF8, TF0), (TF1, TF8, 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, TF5, TF1), (TF1, TF5, TF1), (TF0, TF6, TF1), (TF1, TF6, TF1), (TF0, TF7, TF1), (TF1, TF7, TF1), (TF0, TF8, TF1), (TF1, TF8, TF1))

6.10.3.4.6.6.1.2 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 / unkown/ 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.

6.10.3.4.6.6.2.2 Physical channel parameters

6.10.3.4.6.6.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.6.6.2.2.2 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (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 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.

- 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

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.

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.

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.

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 header, bit	0
MAC	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)= (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 header, bit	0
MAC	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)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

6.11.1a Streaming / unknown / DL:64 kbps / PS RAB + Interactive or background / UL: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.1.3 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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	656
	TFS	0x656
	TF0, bits	1x656
	TF1, bits	2x656
	TF2, bits	4x656
	TF3, bits	
	TTI, ms	40
	Coding type	TC
Layer 1	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)= (TF0,TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (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
	DPDCH	140
		Number of data bits/slot
		2 100
		Number of data bits/frame

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
	TTI, ms	1x345
		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
	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 DCCH (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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1 344
	TFS	0x1344
		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 header, bit	0
MAC	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 header, bit	9
MAC	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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	144
	TFS	0x144 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)= (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
	AMD PDU header, bit	16
	MAC header, bit	0
Layer 1	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	144
	TFS	0x144
		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)= (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 header, bit	0
Layer 1	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	1 344
	TFS	0x1344
		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	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 header, bit	0

	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	1 344	
	TFS	TF0, bits TF1, bits	0x1344 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	

6.11.4a 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	
MAC	UMD/AMD PDU header, bit	8	8	16	16	16	
	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	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					

6.11.4a.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)= (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 header, bit	0
MAC	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)= (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)= (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
		Number of Pilot bits/slot
	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 Fixed RLC + MAC-e/es (Rel-6 and later) NOTE 2	Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) NOTE 2	Alt 3 Flexible RLC + MAC-i/is (Rel-8 and later releases) 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 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.

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 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 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 header, bit	0
MAC	MAC multiplexing	N/A

Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS	TF0, bits TF1, bits TF2, bits TF3, bits TF4, bits
		0x336 1x336 2x336 3x336 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)

6.11.4e.1.2 Physical channel parameters

DPDCH 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

RLC	RAB/Signalling RB	RAB
	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 TF1, bits TF2, bits TF3, bits TF4, bits
		0x336 1x336 2x336 3x336 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 header, bit	4	4	4		
MAC	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)= (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	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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS	TF0, bits TF1, bits
		0x336 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)= (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	RB5
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 multiplexing	N/A
MAC	MAC-d PDU size, bit	336
	MAC-e/es header fixed part, bit	18
	TrCH type	E-DCH
Layer 1	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.

6.11.4g.1.2 Physical channel parameters

6.11.4g.1.2.1 Physical channel parameters on E-PUSCH

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 NOTE1
	UMD PDU header, bit	8
	MAC-d header, bit	0
MAC	MAC multiplexing	N/A
	MAC-d PDU size, bit	336
	MAC-hs header fixed part, bit	21
	TrCH type	HS-DSCH
Layer 1		

	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#1parameters 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

		Flexible RLC + MAC-ehs (Rel-7 and later releases)
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 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, 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)			
	AMD/UMD PDU header, bit	8	16	16	16
MAC	MAC header, bit	4	4	4	4
	MAC multiplexing	N/A			
	MAC-d PDU size, bit	Flexible			
	MAC-hs Type	MAC-ehs			
	MAC-ehs header fixed part, bit	24			
Layer 1	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 NOTE1
	UMD PDU header, bit	8
	MAC-d header, bit	0
MAC	MAC multiplexing	N/A
	MAC-d PDU size, bit	Flexible
	MAC-ehs header fixed part, bit	24
	Layer 1	
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-ehs 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.

6.11.5 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
	TFCI 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 TFCI 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
	TFCI 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 TFCI 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 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	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 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
	TFCI 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 TFCI 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 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	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
	TFCI 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.

6.11.5.4.1.3.1.2 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.

6.11.5.4.1.3.2.2 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
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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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.52

6.11.5.4.1.6 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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits

Puncturing Limit	0.60
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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	
TFCI code word / radio frame	16 bits	
TPC / radio frame	2x2 bits	
SS / radio frame	2x2 bits	
Puncturing Limit	0.60	

6.11.5.4.1.7 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.

6.11.5.4.1.9.1.3 TFCS

See clause 6.10.3.4.1.9.1.3.

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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.72

6.11.5.4.1.10 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.

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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.96

6.11.5.4.1.10.2 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 6.10.3.4.1.1.1.1.

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 6.10.3.4.1.1.2.1.1.

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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.52

6.11.5.4.1.12.2 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
	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 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.

6.11.5.4.1.14.1.3 TFCS

See clause 6.10.3.4.1.14.1.3.

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	8 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 frame	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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.48 (alt. 0.44)

6.11.5.4.1.23.2 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
	TFCI 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:8 kbps / 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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.68

6.11.5.4.1.23c 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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.48 (alt 0.44)

6.11.5.4.1.23c.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 DL32 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
	TFCI code word / radio frame	16 bits

	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.52

6.11.5.4.1.30 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

DPCCH 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 1 code 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)

6.11.5.4.1.30.2 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

DPCCH 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	
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	

6.11.5.4.1.34.2 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
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1),

(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1))
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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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.72 (alt 0.68)

6.11.5.4.1.38.2 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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.44

6.11.5.4.1.38a 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 kbps / CS RAB + Interactive or background / UL:8 kbps / PS RAB + UL: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 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 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

DPCCH 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 1 code 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

DPCCH 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 1 code 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
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	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)

DPCH 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)

DPCH 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

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	8 408 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) + (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
	TFCI 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	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 2 048 kbps RAB , DCCH)= ((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, TF0, 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), (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, TF8, 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, 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, TF8, TF1))

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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.60

6.11.5.4.1.50 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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.52

6.11.5.4.1.50.2 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
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.48

6.11.5.4.1.51 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	
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	0.40	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

DPCCH 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	0.84	

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	
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	0.40	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 1 code 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
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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 header, bit	0	
MAC	MAC multiplexing	N/A	
	TrCH type	DCH	
Layer 1	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(alternatively 20)	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	8 460 (alternatively 16 920)	
	Max number of bits/radio frame before rate matching	8 460 (alternatively 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (alternatively (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))

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)= (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)

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+ 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+ 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)= (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)

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+ 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

6.11.5.4.1.65.2 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)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF4,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF4,TF1,TF0),

(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF4,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1), (TF4,TF1,TF1), (alt. (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF4,TF0,TF0), (TF5,TF0,TF0), (TF6,TF0,TF0),(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF4,TF1,TF0), (TF5,TF1,TF0), (TF6,TF1,TF0),(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF4,TF0,TF1), (TF5,TF0,TF1), (TF6,TF0,TF1),(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1), (TF4,TF1,TF1), (TF5,TF1,TF1), (TF6,TF1,TF1))
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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+ SF16 x 2 code x 2 time slots	
Max. Number of data bits / radio frame	5960 bits	
TFCI code word / radio frame	16 bits	
TPC / radio frame	2x2 bits	
SS / radio frame	2x2 bits	
Puncturing Limit	0.52	

6.11.5.4.1.66 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,TF0,TF0,TF0), (TF0,TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF0,TF1,TF0), (TF0,TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0,TF0), (TF2,TF1,TF1,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1,TF0), (TF1,TF0,TF0,TF1,TF1,TF0), (TF2,TF1,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF0,TF1), (TF1,TF0,TF0,TF1,TF0,TF1), (TF2,TF1,TF1,TF0,TF1,TF1), (TF0,TF0,TF0,TF1,TF1,TF1), (TF1,TF0,TF0,TF1,TF1,TF1), (TF2,TF1,TF1,TF1,TF0,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)= (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, TF0, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0), (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, TF0, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, 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), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (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 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)= (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, 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, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0), (TF0, TF0, TF0, TF4, TF0, TF0), (TF1, TF0, TF0, TF4, TF0, TF0), (TF2, TF1, TF1, TF4, 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, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0), (TF0, TF0, TF0, TF4, TF1, TF0), (TF1, TF0, TF0, TF4, TF1, TF0), (TF2, TF1, TF1, TF4, TF1, TF0), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1), (TF0, TF0, TF0, TF3, TF0, TF1), (TF1, TF0, TF0, TF3, TF0, TF1), (TF2, TF1, TF1, TF3, TF0, TF1), (TF0, TF0, TF0, TF4, TF0, TF1), (TF1, TF0, TF0, TF4, TF0, TF1), (TF2, TF1, TF1, TF4, 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), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1), (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+ SF 16 x 4 codes 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 Conversational / speech / UL: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)= (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, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0), (TF0, TF0, TF0, TF4, TF0, TF0), (TF1, TF0, TF0, TF4, TF0, TF0), (TF2, TF1, TF1, TF4, 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, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0), (TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0), (TF0, TF0, TF0, TF4, TF1, TF0), (TF1, TF0, TF0, TF4, TF1, TF0), (TF2, TF1, TF1, TF4, 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, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1), (TF0, TF0, TF0, TF3, TF0, TF1), (TF1, TF0, TF0, TF3, TF0, TF1), (TF2, TF1, TF1, TF3, TF0, TF1), (TF0, TF0, TF0, TF4, TF0, TF1), (TF1, TF0, TF0, TF4, TF0, TF1), (TF2, TF1, TF1, TF4, TF0, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1), (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+ 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 + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.70.1 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 header, bit	4	4	4		
MAC	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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (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 + 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 header, bit	4	4	4		
MAC	MAC multiplexing	3 logical channel multiplexing				
	TrCH type	DCH				
Layer 1	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), (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 High prio	NAS_DT 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 (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. 16 000)						
	RLC header, bit	8	8	16	16	16	8	0						
	MAC header, bit	3	27 or 43	27	27	27	3	3						
Layer 1	MAC multiplexing	7 logical channel multiplexing												
	TrCH type	FACH												
	TB sizes, bit	171	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 (alt. 764)	1 528 (alt. 764)	1 528 (alt. 764)	1 528 (alt. 764)	1 528 (alt. 764)	1 528 (alt. 764)	1 528 (alt. 764)						

NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.									
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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 1/2							
	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.									
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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 (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 (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 6.10.3.4.2.2.2.1.1.

6.11.5.4.2.2.2.1.2 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.

6.11.5.4.2.2.2.1.3 TFCS for DSCH

See clause 6.10.3.4.2.2.2.1.3.

6.11.5.4.2.2.2.1.4 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.

6.11.5.4.2.2.2.1.5 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.5.

6.11.5.4.2.2.2.2 Physical channel parameters

6.11.5.4.2.2.2.2.1 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

6.11.5.4.2.2.2.2.2 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
		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)	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0))

(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), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (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 6.10.3.4.3.1.1.6.

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.

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.

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 (alt. SF16 x 1 codes x 2 time slots)
	Max. Number of data bits/radio frame	344 bits (alt. 168 bits)
	TFCI 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

See clause 6.10.3.4.4.2.1.1.

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 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	160	136 or 120	128	128	128	168	
	Max data rate, bps	32 000 (alt. 16 000)	27 200 or 2400 (alt. 24 000 or 12 000)	25 600 (alt. 12 800)	25 600 (alt. 12 800)	25 600 (alt. 12 800)	33 600 (alt. 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

See clause 6.10.3.4.4.2.1.3.

6.11.5.4.4.2.2 Physical channel parameters

SCCPCH	Modulation	QPSK
	Codes and time slots / radio frame	SF 16 x 9 codes x 2 time slots (alt. SF16 x 4 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 (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 6.10.3.4.4.2.1.1.

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

See clause 6.10.3.4.4.3.1.4.

6.11.5.4.4.3.2 Physical channel parameters

S-CCPCH	Modulation	QPSK
	Codes and time slots / radio frame	SF16 x 10 codes x 2 time slots (alt. SF16 x 6 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 (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 RB for CTCH + SRB for CCCH + SRB for BCCH

6.11.5.4.4.1 Transport channel parameters

6.11.5.4.4.1.1 Transport channel parameters of RB for CTCH

See clause 6.10.3.4.4.4.1.1.

6.11.5.4.4.1.2 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

Higher layer	RAB/signalling RB	SRB#0	SRB#5	
	User of Radio Bearer	RRC	RRC	
	MAC multiplexing	2 logical channel multiplexing		
Layer 1	TrCH type	FACH		
	TB sizes, bit	171		
	TFS	TF0, bits TF1, bits TF2, bits	0x171 1x171 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 6.10.3.4.4.4.1.3.

6.11.5.4.4.4.2 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
	TFCI 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 TF1, bits TF2, bits TF3, bits TF4, bits	0x665 1x665 2x665 3x665 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.

- 6.11.5.4.5.1.2 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/ 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					

6.11.5.4.5.2.1.2 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/ 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						

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
	Max number of bits/TTI after channel coding	388						
	Max number of bits/ Radio frame before rate 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 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE2	Alt 2 Fixed RLC + MAC-ehs (Rel-8 and later releases) NOTE2	Alt 3 Flexible RLC + MAC-ehs (Rel-8 and later releases) 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 12000
	Max data rate, bps	depends on UE category 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.

6.11.5.4.6.1.2.1.2 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
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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 header, bit	0
MAC	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	
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	0.80 (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)

		Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE2	Alt 2 Fixed RLC + MAC-ehs (Rel-8 and later releases) NOTE2	Alt 3 Flexible RLC + MAC-ehs (Rel-8 and later releases) 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 12000
	Max data rate, bps	depends on UE category 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
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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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336 (alt. 144)
	TFS	0x336 (alt. 0x144)
	TF0, bits	1x336 (alt. 1x144)
	TF1, bits	2x336 (alt. 3x144)
	TF2, bits	3x336 (alt. 7x144)
	TF3, bits	4x336 (alt. 10x144)
	TF4, bits	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	
TFCI 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	0x336 (alt. 0x144)
		1x336 (alt. 1x144)
		2x336 (alt. 7x144)
		4x336 (alt. 14x144)
		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.

6.11.5.4.6.6.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.6.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.11.5.4.6.6.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.5.4.6.6.2.1.2.3 TFCS

See clause 6.10.2.4.1.4.2.1.3.

6.11.5.4.6.6.2.2 Physical channel parameters

6.11.5.4.6.6.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.4.2.2.

6.11.5.4.6.6.2.2.2 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 6.11.5.4.6.6.2.

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 header, bit	0	0
MAC	MAC multiplexing	N/A	N/A
	TrCH type	DCH	DCH
Layer 1	TB sizes, bit	336	336(alt. 144)
	TFS	0x336	0x336(alt. 0x144)
		1x336	1x336(alt. 1x144)
		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.

6.11.5.4.6.11.1.3 TFCS

TFCS size	12 (alt. 18)
TFCS	(32kbps RAB, 8kbps RAB, DCCH)== (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), (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, TF0, TF1), (TF2, TF1), (TF0, TF2, 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.

6.11.5.4.6.11.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF4 x 1 code x 2 timeslots +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)= (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, 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, 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))

6.11.5.4.6.13.1.2 Physical channel parameters

DPCCH Uplink	Modulation	QPSK
	Codes and time slots / frame	SF1 x 1 code x 6 time slots+ SF8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	8776 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x2 bits
	SS / radio frame	2x2 bits
	Puncturing Limit	0.64

6.11.5.4.6.13.2 Downlink

See clause 6.11.5.4.6.6.2.

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)= (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,TF2,TF0,TF0), (TF1,TF0,TF0,TF2,TF0,TF0), (TF2,TF1,TF1,TF2,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,TF2,TF1,TF0), (TF1,TF0,TF0,TF2,TF1,TF0), (TF2,TF1,TF1,TF2,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,TF0,TF1,TF1), (TF0,TF0,TF0,TF1,TF1,TF1), (TF1,TF0,TF0,TF1,TF1,TF1), (TF2,TF1,TF1,TF1,TF1,TF1), (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)= (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, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0), (TF0, TF0, TF0, TF4, TF0, TF0), (TF1, TF0, TF0, TF4, TF0, TF0), (TF2, TF1, TF1, TF4, 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, TF1, TF2, TF1, TF0), (TF1, TF0, TF0, TF1, TF2, TF1, TF0), (TF2, TF1, TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0), (TF0, TF0, TF0, TF4, TF1, TF0), (TF1, TF0, TF0, TF4, TF1, TF0), (TF2, TF1, TF1, TF4, 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, TF0, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1), (TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1), (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+ 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 Fixed RLC + MAC-e/es (Rel-7 and later) NOTE 1	Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) NOTE 1	Alt 3 Flexible RLC + MAC-i/is (Rel-8 and later releases) 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 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE				Alt 2 Fixed RLC + MAC-ehs (Rel-8 and later releases) 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							
MAC	AMD PDU header, bit	8	16	16	16	8	16	16	16
	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.

- 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.

- 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 Fixed RLC + MAC-e/es (Rel-6 and later releases) NOTE				Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) 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.

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 6.11.5.4.6.6.2.

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-d header, bit	0
MAC	MAC multiplexing	N/A
	MAC-d PDU size, bit	336
	MAC-e/es header fixed part, bit	21
	TrCH type	HS-DSCH
Layer 1	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.

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.

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

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 6.11.5.4.7.3.1.1.2.

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

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)= (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, TF0, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, 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, TF0, TF0), (TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, 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, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1), (TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1), (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 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)= (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, TF0, TF0, TF0), (TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, 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, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, 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, TF0, TF1, TF1), (TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, 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), (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)= (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)

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 Fixed RLC + MAC-e/es (Rel-6 and later) NOTE 2	Alt 2 Flexible RLC + MAC-i/is (Rel-8 and later releases) NOTE 1		
Higher layer	RAB/Signalling RB	RAB			
PDCP	PDCP header size, bit	0			
RLC	Logical channel type	DTCH			
	RLC mode	UM			
	Payload sizes, bit	88, 104, 136, 152, 168, 184, 200, 216, 280, 288, 304, 336 (alt 328)	Flexible from 88 up to 12000 (NOTE 2)		
	Max data rate, bps	Depends on UE category and TTI			
	UMD PDU header, bit	8			
	MAC multiplexing	N/A			
MAC	MAC-d PDU size, bit	96, 112, 144, 160, 176, 192, 208, 224, 288, 296, 312, 344 (alt 336)	Flexible from 96 up to 12008		
	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	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 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.					

- 6.11.5.4.7.22.1.1.1.2 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 6.11.5.4.7.3.1.1.2.

- 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

		Alt 1 Fixed RLC + MAC-hs (Rel-5 and later releases) NOTE 2	Alt 2 Fixed RLC + MAC-ehs (Rel-7 and later releases) NOTE 2	Alt 3 Flexible RLC + MAC-ehs (Rel-7 and later releases) NOTE 2
Higher Layer	RAB/Signalling RB		RAB	
RLC	Logical channel type		DTCH	
	RLC mode		UM	
	Payload sizes, bit	104, 136, 152, 168, 184, 216, 288, 336 (alt 328)	104, 136, 152, 168, 184, 216, 288, 336 (alt 328)	Flexible up to 12000 (NOTE 3)
	Max data rate, bps		depends on UE category 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, 176, 192, 224, 296, 344 (alt 336)	112 , 144, 160, 176, 192, 224, 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, 16QAM	QPSK, 16QAM, 64QAM	QPSK, 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-ehs 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-ehs 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 header, bit	4	4	4
MAC	MAC multiplexing	3 logical channel multiplexing		
	MAC header, bit	DCH		
Layer 1	TCH type		340	
	TB sizes, bit		0x340	
	TFS	TF0, bits	1x340	
		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	

6.11.5.4.8.1.1.1.2 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)= (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 header, bit	None		
MAC-d	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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
Layer 1	TB sizes, bit	336
	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)= (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	RB5
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 Fixed RLC + MAC-e/es (Rel-6 and later) NOTE	Alt 2 Fixed RLC + MAC-i/is (Rel-8 and later releases) NOTE	Alt 3 Flexible RLC + MAC-i/is (Rel-8 and later releases) 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 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.				

6.11.5.4.9.1.1.1.2 Transport channel parameters for DCH

6.11.5.4.9.1.1.1.2.1 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 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	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

- 6.11.5.4.9.2.2.1.2 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, alt 3.

- 6.11.5.4.9.3.1.1.2 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, 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, 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, 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-PUSCH

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 ^[3]	SSD ^[3]	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 ^[3]	SSD ^[3]	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

RAB				Residual BER ^[3]	Services
Traffic class ^[3]	SSD ^[3]	Max. rate, kbps	CS/PS		
Conversational	Speech	UL:4.75-12.2 DL:4.75-12.2	CS	5x10 ⁻⁴ , 1x10 ⁻³ , 5x10 ⁻³	AMR speech
Conversational	Unknown	UL:64 DL:64	CS	1x10 ⁻⁴ or 1x10 ⁻⁶	UDI 1B, 64k 3G-324M ^[4]
Conversational	Unknown	UL:32 DL:32	CS	1x10 ⁻⁴ or 1x10 ⁻⁶	32k 3G-324M ^[4]
Conversational	Unknown	UL:28.8 DL:28.8	CS	1x10 ⁻³	Transparent modem
Streaming	Unknown	UL:14.4 DL:14.4	CS	1x10 ⁻³	FAX ^[6]
Streaming	Unknown	UL:28.8 DL:28.8	CS	1x10 ⁻³	FAX ^[6] PIAFS 32 kbps
Streaming	Unknown	UL:57.6 DL:57.6	CS	1x10 ⁻³	Modem ^[6] , FTM ^[5] , PIAFS 64 kbps
Streaming	Unknown	UL:64-128 or DL:64-384	CS	1x10 ⁻³ or 1x10 ⁻⁴	Streaming video, uni-directional
Interactive or Background	N/A	UL:32-384 DL:8-2048	PS	1x10 ⁻³ or 1x10 ⁻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.

6.11.6.4 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

6.11.6.4.1.1.1.1

Uplink

6.11.6.4.1.1.1.1.1

Transport channel parameters

6.11.6.4.1.1.1.1.1.1

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 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 (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	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 (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	DCCCH	DCCCH	DCCCH	DCCCH			
	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
	TFCI 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 TFCI 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 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	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
	TFCI 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 TFCI 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 High priority	NAS_DT Low priority			
RLC	Logical channel type	DCCCH	DCCCH	DCCCH	DCCCH			
	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

DPCCH 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
	TFCI code word	8 bits
	TPC	2 bit
	Puncturing Limit	1

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits.

6.11.6.4.1.2.2 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	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	DCCCH	DCCCH	DCCCH	DCCCH
	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.

6.11.6.4.1.2.2.1.2 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
	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.

6.11.6.4.1.3 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 High priority	NAS_DT Low priority			
RLC	Logical channel type	DCCCH	DCCCH	DCCCH	DCCCH			
	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 UTRAN.

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

DPCCH 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
	TFCI code word	8 bits
	TPC	2 bits
	Puncturing Limit	0.88

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits.

6.11.6.4.1.3.2 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 High priority	NAS_DT Low priority			
RLC	Logical channel type	DCCCH	DCCCH	DCCCH	DCCCH			
	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

DPCCH 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
	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.

- 6.11.6.4.1.4 Conversational / speech / UL: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 (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(alternative 1x0) (note)	0x103
		TF1, bits	1x39	1x103
		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
<p>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]).</p>				

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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (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
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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) (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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (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
	TFCI 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 (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 (alt. 0, 39, 42, 55, 75, 81)	53, 63, 84, 103	60
TFS	TF0, bits	0x81(alternate 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)= (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)

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 (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 (alt. 0, 39, 42, 55, 75, 81)	53, 63, 84, 103	60
	TFS	TF0, bits	0x81(alternate 1x0) (note)	0x103
		TF1, bits	1x39	1x53
		TF2, bits	1x42	1x63

	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)= (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)
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
	TFCI 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 (alt. 0, 39, 65)	99	40
	Max data rate, bps		10 200	
	TrD PDU header, bit		0	
	MAC header, bit		0	
MAC	MAC multiplexing		N/A	
	TrCH type	DCH	DCH	DCH
	TB sizes, bit	39, 65 (alt. 0, 39, 65)	99	40
	TFS	TF0, bits	0x65 (alt. 1x0) (note)	0x99
		TF1, bits	1x39	1x99
		TF2, bits	1x65	N/A
Layer 1	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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (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	TF0, bits	0x65 (alt,1x0) (note)	0x99
		TF1, bits	1x39	1x99
		TF2, 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: 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)= (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (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
	TFCI 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 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40	
	Max data rate, bps	10 200			
	TrD PDU header, bit	0			
	MAC header, bit	0			
Layer 1	MAC multiplexing	N/A			
	TrCH type	DCH	DCH	DCH	
	TB sizes, bit	39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40	
	TFS	0x65 (alt. 1x0) (note)	0x99	0x40	
	TF0, bits	1x39	1x53	1x40	
	TF1, bits	1x42	1x63	N/A	
	TF2, bits	1x55	1x76	N/A	
	TF3, bits	1x58	1x99	N/A	
	TF4, 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	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)= (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)

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 (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 header, bit	0		
MAC	MAC multiplexing	N/A		
	TrCH type	DCH	DCH	DCH
	TB sizes, bit	39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	0, 53, 63, 76, 99	40
	TFS	TF0, bits TF1, bits TF2, bits TF3, bits TF4, bits TF5, bits	0x65 (alt. 1x0) (note) 1x39 1x42 1x55 1x58 1x65	0x99 1x53 1x63 1x76 1x99 N/A
	TTI, ms	20		
	Coding type	CC 1/3		
	CRC, bit	12		
	Max number of bits/TTI after channel coding	255		
	Max number of bits/radio frame before rate matching	128		
	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)= (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)

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
	TFCI code word	16 bits
	Puncturing limit	0.40

6.11.6.4.1.6 Conversational / speech / UL: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
	TF0, bits	1x39	1x84
	TF1, bits	1x75	N/A
	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]).			

6.11.6.4.1.6.1.1.2 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI 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)	0x84
		1x39	1x84
		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]).			

6.11.6.4.1.6.2.1.2 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI 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)	0x87
	TF1, bits	1x39	1x87
	TF2, 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: 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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(alternative 1x0) (note)	0x87
	TF1, bits	1x39	1x87
	TF2, 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: 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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 (alt. 0, 39, 42, 55, 58, 61)	53, 63, 76, 87
		7 400	
	Max data rate, bps	0	
	TrD PDU header, bit		N/A
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
		0x61 (alt. 1x0) (note)	0x87
	TF0, bits	1x39	1x53
	TF1, bits	1x42	1x63
	TF2, bits	1x55	1x76
	TF3, bits	1x58	1x87
	TF4, 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)= (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.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 (alt. 0, 39, 42, 55, 58, 61)	53, 63, 76, 87
		7 400	
	Max data rate, bps		0
	TrD PDU header, bit		
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	0x61 (alt. 1x0) (note)	0x87
		1x39	1x53
		1x42	1x63
		1x55	1x76
		1x58	1x87
		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)= (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)
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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 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)	0x76
	TF0, bits	1x39	1x76
	TF1, bits	1x58	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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 header, bit	0	
MAC	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	DCH
	TB sizes, bit	39, 58 (alt. 0,39,58)	76
	TF0, bits	0x58 (alt.1x0) (note)	0x76
	TF1, bits	1x39	1x76
	TF2, bits	1x58	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 : 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI 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)	0x63
		TF1, bits 1x39	1x63
		TF2, bits 1x55	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: 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI 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)	0x63
		TF1, bits 1x39	1x63
		TF2, bits 1x55	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]).

6.11.6.4.1.9.2.1.2 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI 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 header, bit	0	
MAC	MAC multiplexing	N/A	
	TrCH type	DCH	DCH
Layer 1	TB sizes, bit	39, 49 (alt. 0, 39, 49)	54
	TFS	TF0, bits	0x49 (alt. 1x0) (note)
		TF1, bits	1x39
		TF2, bits	1x49
	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.

6.11.6.4.1.10.1.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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 header, bit	0	
MAC	MAC multiplexing	N/A	
	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	1x49
	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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

	TFCI code word	16 bits
	Puncturing limit	0.72

6.11.6.4.1.11 Conversational / speech / UL: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 header, bit	0	
MAC	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)	0x53
		1x39	1x53
		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 6.11.6.4.1.1.1.1.

6.11.6.4.1.11.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI 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
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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
		TF2, bits	1x42
	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (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
	TFCI 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS	0x576
		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)= (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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.76

NOTE: In case the first TFC in a TFCS is not configured, the TFCI 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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	576
	TFS	0x576
	TF0, bits	1x576
	TF1, bits	
	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)= (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
	TFCI code word	16 bits
	Puncturing limit	0.40

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.11.6.4.1.13 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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	640
	TFS	0x640
		2x640(alternatively 4x640)
	TTI, ms	20(alternatively 40)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3 948(alternatively 7884)
	Max number of bits/radio frame before rate matching	1 974(alternatively 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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.11.6.4.1.13.2 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 TF1, bits
		0x640 2x640(alternatively 4x640)
	TTI, ms	20(alternatively 40)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3 948(alternatively 7 884)
	Max number of bits/radio frame before rate matching	1 974(alternatively 1 971)
	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
	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.

6.11.6.4.1.14 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(alternatively 2x640)
TTI, ms		20(alternatively 40)
Coding type		TC
CRC, bit		16
Max number of bits/TTI after channel coding		1 980(alternatively 3948)
Max number of bits/radio frame before rate matching		990(alternatively 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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.68
NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.		

6.11.6.4.1.14.2 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	640
	TFS	TF0, bits TF1, bits
		0x640 1x640(alternatively 2x640)
	TTI, ms	20(alternatively 40)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	1 980(alternatively 3948)
	Max number of bits/radio frame before rate matching	990(alternatively 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
	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.

6.11.6.4.1.15 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS	TF0, bits
		1x576
	TTI, ms	40
		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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.76

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.11.6.4.1.15.2 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
	TFCI code word	16 bits
	Puncturing limit	0.80

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.11.6.4.1.16 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

	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)= (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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44
NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.		

6.11.6.4.1.16.2 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS	0x576
	TF0, bits	1x576
	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)= (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
	TFCI code word	16 bits
	Puncturing limit	0.44

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.

6.11.6.4.1.17 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS	0x576
	TF0, bits	1x576
	TF1, bits	2x576
	TF2, bits	3x576
	TF3, bits	4x576
	TF4, bits	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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
	TFCI 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336 (alt.144)
	TFS	TF0, bits TF1, bits TF2, bits
		0x336 (alt. 0x144) 1x336 (alt. 1x144) 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)= (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
	TFCI 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS	TF0, bits TF1, bits
		0x336 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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	336 (alt. 144)
	TFS	0x336 (alt. 0x144)
		1x336 (alt. 1x144)
		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)
Layer 1	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) (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

DPCCH 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 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)
		TF1, bits	1x336 (alt. 1x144)
		TF2, bits	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)= (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

DPCCH 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	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	
	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)= (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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (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.	

6.11.6.4.1.23c.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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (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.

6.11.6.4.1.23c.2.2 Physical channel parameters

DPCCH 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336 (alt. 144)
	TFS	0x336 (alt. 0x144)
	TF0, bits	1x336 (alt 1x144)
	TF1, bits	2x336 (alt. 5x144)
	TF2, bits	
	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)= (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

DPCCH 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
		0x336
		TF1, bits
		1x336
		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)= (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 header, bit	0	
MAC	MAC multiplexing	N/A	
	TrCH type	DCH	
Layer 1	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	
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 + 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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
Layer 1	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 + SF8 x 1 code x 1 time slot	SF4 x 1 code x 1 time slot + 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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS	0x336
	TF0, 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 + 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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
	TB sizes, bit	336 (alt. 144)
	TFS	0x336 (alt. 0x144)
	TF0, bits	1x336 (alt. 1x144)
	TF1, bits	2x336 (alt. 7x144)
	TF2, bits	4x336 (alt 14x144)
	TF3, bits	8x336 (alt. 20x144)
	TTI, ms	20
	Coding type	TC
Layer 1	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (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 + 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 header, bit	0	
Layer 1	MAC multiplexing	N/A	
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (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 header, bit	0	
MAC	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (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 header, bit	0
MAC	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (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))
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	0x336
	TF0, bits	1x336
	TF1, bits	2x336
	TF2, bits	4x336
	TF3, bits	8x336
	TF4, bits	12x336
	TF5, bits	N/A (alt. 16x336)
	TF6, bits	N/A (alt. 20x336)
	TF7, bits	N/A (alt. 24x336)
	TF8, bits	10 (alt. 20)
	TTI, ms	TC
	Coding type	16
	CRC, bit	12 684 (alt. 25 368)
	Max number of bits/TTI after channel coding	12 684 (alt. 12 684)
	Max number of bits/radio frame before rate matching	110 to 150
	RM attribute	

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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (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

DPCCH 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), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (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.

6.11.6.4.1.34.1.2 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 + SF8 x 1 code x 2 timeslots (alt. {SF4 x 1 code + SF8 x 1 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

6.11.6.4.1.34.2 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1) (alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1), (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 + 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)= (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, 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, TF2, TF1, TF1)

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.11.6.4.1.38.1.2 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)= (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, 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)

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
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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)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (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 header, bit	0
MAC	MAC multiplexing	N/A
	TrCH type	DCH
Layer 1	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)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (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
	TFCI 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)= (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,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) (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,TF1,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))
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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)= (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,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)

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)= (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,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) (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,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))

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)= (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,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))

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 kbps / CS RAB + Interactive or background / UL:64 kbps / PS RAB + Interactive or background / UL:64 kbps / PS RAB + UL: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 header, bit	4	4
MAC	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)= (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,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)

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

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 (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)= (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,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))

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

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

6.11.6.4.1.38e 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)= (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), (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), (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), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,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), (TF5,TF4,TF1,TF0,TF1),
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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 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)= (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), (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), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (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) (alt. (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), (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), (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), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (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))

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)= (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), (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), (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), (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)

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)= (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), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,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), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,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), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) (alt. (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), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,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), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,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), (TF3,TF2,TF0,TF2,TF1), (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 + 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)= (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), (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), (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), (TF5,TF4,TF1,TF2,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), (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)

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
	TFCI 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)= (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), (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), (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), (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,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,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 + 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)= (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), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF1,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,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), (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,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (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)= (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), (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), (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), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF4,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), (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,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.

6.11.6.4.1.38i.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)= (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), (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), (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), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF4,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), (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,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)

(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF3,TF0), (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), (TF5,TF4,TF1,TF4,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), (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.

6.11.6.4.1.38i.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)= (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), (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), (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), (TF5,TF4,TF1,TF2,TF0), (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), (TF5,TF4,TF1,TF3,TF0), (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), (TF5,TF4,TF1,TF4,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), (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

DPCCH 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)= (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, 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)

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

DPCCH 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
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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)= (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, TF1), (TF1, 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)

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)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (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)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (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
	TFCI 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
	TFCI 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
	TFCI 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)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, 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)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (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.	

6.11.6.4.1.40.2.2.2 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.

6.11.6.4.1.40.2.2.2.2 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)= (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, 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)

NOTE:	In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.
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6.11.6.4.1.41.2.1.4.2.2 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)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, 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)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (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)= (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, 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) (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, 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))

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 + 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	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (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, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, 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))

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)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, 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)= (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0) (alt. (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (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)= (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, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF4, 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, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, 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} 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

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.11.6.4.1.44.2.2 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)= (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, 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)

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 code x 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)= (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, TF0, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, 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, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, 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)= (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, TF0, 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)

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
	TFCI 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)= (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, 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)

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
	TFCI 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
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TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)= (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), (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), (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), (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)
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

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

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)= (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), (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), (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), (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)

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

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

6.11.6.4.1.50 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (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 + 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (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)= (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, TF0), (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, 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

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 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)= (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, TF0), (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, 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

DPCCH 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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) (alt. (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (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.

6.11.6.4.1.51a.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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (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)= (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, TF0), (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, 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} + {SF32 x 5 codes x 1 time slot}
	Max. Number of data bits/radio frame	3 156 bits
	TFCI 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 128kbps RAB, DCCH)= (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, TF0), (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, 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
	TFCI 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)
		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	

- 6.11.6.4.1.56.1.1.2 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)= ((TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1)) (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	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	
	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)= (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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (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 header, bit	4	4
MAC	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	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)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (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	0x336
		TF1, bits	1x336
	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)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1) (alt. (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))

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 + SF32 x 1 code 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 header, bit	0	
MAC	MAC multiplexing	N/A	
	TrCH type	DCH	
Layer 1	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	
	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)= (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (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

DPCCH 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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) (alt. (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (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.

6.11.6.4.1.61.1.2 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
	TFCI 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)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (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 SHCCCH

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 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCCH mapped on USCH

Higher layer	RAB/Signalling RB	RAB	SRB#5
RLC	Logical channel type	DTCH	SHCCCH
	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 header, bit	1	1
MAC	MAC multiplexing	N/A	N/A
	TrCH type	USCH	USCH
	TB sizes, bit	337 (alt. 145)	169
	TFS	0x337 (alt. 0x145)	0x169
		1x337 (alt. 1x145)	1x169
		2x337 (alt. 3x145)	N/A
		3x337 (alt. 7x145)	N/A
		4x337 (alt. 10x145)	N/A
	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 High prio	NAS_DT Low prio			
RLC	Logical channel type	DCCCH	DCCCH	DCCCH	DCCCH			
	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (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	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	DCCCH	DCCCH	DCCH	DCCCH	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	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										

6.11.6.4.2.1.1.4.2 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/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT 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	DCCCH	DCCCH	DCCCH	DCCCH			
	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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (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 High prio	NAS_DT 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 (note)	128	128	128	160	168	
	Max data rate, bps	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	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/ 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							
	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 (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 (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	0x169
		TF1, bits	1x337	1x169
		TF2, bits	2x337	N/A
		TF3, bits	4x337	N/A
		TF4, bits	8x337	N/A
		TF5, bits	12x337	N/A
		TF6, bits	N/A (alt. 16x337)	N/A
		TF7, bits	N/A (alt. 20x337)	N/A
		TF8, bits	N/A (alt. 24x337)	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	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	

6.11.6.4.2.2.2.1.2 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.

6.11.6.4.2.2.2.1.3 TFCS for DSCH

TFCS size	24 (alt. 36)
TFCS	(384 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (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), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1))

6.11.6.4.2.2.2.1.4 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.

6.11.6.4.2.2.2.1.5 TFCS for FACH

See clause 6.11.6.4.2.1.2.1.5.

6.11.6.4.2.2.2.2 Physical channel parameters

6.11.6.4.2.2.2.2.1 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

6.11.6.4.2.2.2.2.2 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
	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

6.11.6.4.2.3.2.1.2 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (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), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1) (alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0, TF0), (TF11, TF0, TF0), (TF12, TF0, TF0), (TF13, TF0, TF0), (TF14, TF0, TF0), (TF15, TF0, TF0), (TF16, TF0, TF0), (TF17, TF0, TF0), (TF18, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (TF10, TF1, TF0), (TF11, TF1, TF0), (TF12, TF1, TF0), (TF13, TF1, TF0), (TF14, TF1, TF0), (TF15, TF1, TF0), (TF16, TF1, TF0), (TF17, TF1, TF0), (TF18, TF1, TF0), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1), (TF10, TF1, TF1), (TF11, TF1, TF1), (TF12, TF1, TF1), (TF13, TF1, TF1), (TF14, TF1, TF1), (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 6.11.6.4.2.1.2.1.45.1.

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 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 header, bit	1	1
MAC	MAC multiplexing	N/A	N/A
	TrCH type	USCH	USCH
Layer 1	TB sizes, bit	337 (alt. 145)	169
	TFS	0x337 (alt. 0x145)	0x169
		1x337 (alt. 1x145)	1x169

	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 6.11.6.4.2.1.1.2.

6.11.6.4.2.4.1.1.3 TFCS for USCH

TFCS size	36
TFCS	(384 kbps RAB, SHCCH, SRBs for DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (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) (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (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 6.11.6.4.2.1.1.4.

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 6.11.6.4.2.1.2.2.

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
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	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (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	TF0, bits	
	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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) (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))

6.11.6.4.3.1.2.1.6 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1), (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 (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 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	160	136 or 120 (note)	128	128	128	168

	Max data rate, bps	32 000 (alt. 16 000)	27 200 or 24 000 (alt. 24 000 or 12 000)	25 600 (alt. 12 800)	25 600 (alt. 12 800)	25 600 (alt. 12 800)	33 600 (alt. 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) = (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 3 2kbps 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 (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	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

	MAC multiplexing	2 logical channel multiplexing
Layer 1	TrCH type	FACH
	TB sizes, bit	363
	TFS	TF0, bits TF1, bits TF2, bits
		0x363 1x363 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)
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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) = (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) (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 (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) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF1, TF3), (TF1, TF4) (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 (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 RB for CTCH + SRB for CCCH + SRB for BCCH

6.11.6.4.4.1 Transport channel parameters

6.11.6.4.4.1.1 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 header, bit	3	
MAC	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	

6.11.6.4.4.1.2 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 header, bit	3	3
MAC	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	

6.11.6.4.4.1.3 TFCS

TFCS size	4
TFCS	(RB for CTCH, SRBs for CCCH/BCCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0)

6.11.6.4.4.4.2 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 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	0x664 1x664 2x664 3x664 4x664 5x664 6x664 7x664 8x664 9x664 10x664 11x664 12x664 13x664 14x664 15x664 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
	TFCI 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 High priority	NAS_DT 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
MAC	MAC header, bit	26	26	2	26	26	26	26
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 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
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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

6.11.6.4.6.2.2.1 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)= (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, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, 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, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, 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))

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

6.11.6.4.6.6.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.6.6.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.11.6.4.1.34.1.1.1.

6.11.6.4.6.6.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.6.6.1.1.4 TFCS

TFCS size	24 (alt. 36)
TFCS	(64 kbps RAB, 384 kbps RAB , DCCH)= (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, TF5, TF0), (TF1, TF5, TF0), (TF0, TF0, TF1), (TF1, TF4, 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, TF5, TF1), (TF1, TF5, TF1) (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, TF5, TF0), (TF1, TF5, TF0), (TF0, TF6, TF0), (TF1, TF6, TF0), (TF0, TF7, TF0), (TF1, TF7, TF0), (TF0, TF8, TF0), (TF1, TF8, 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, TF5, TF1), (TF1, TF5, TF1), (TF0, TF6, TF1), (TF1, TF6, TF1), (TF0, TF7, TF1), (TF1, TF7, TF1), (TF0, TF8, TF1), (TF1, TF8, TF1))

6.11.6.4.6.6.1.2 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 / unkown/ 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.

6.11.6.4.6.6.2.2 Physical channel parameters

6.11.6.4.6.6.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.6.6.2.2.2 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)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (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

6.11.6.4.6.8.2.1 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)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (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 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.

- 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

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 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.

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.

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.

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
	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

6.11.7.2.1.1.1.2 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

6.11.7.2.2.1 124.4 kbps 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	0x4992
	TF0, bits	1x4992
	TF1, 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
	TTI, ms	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

6.11.7.2.2.3 497.6 kbps 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.

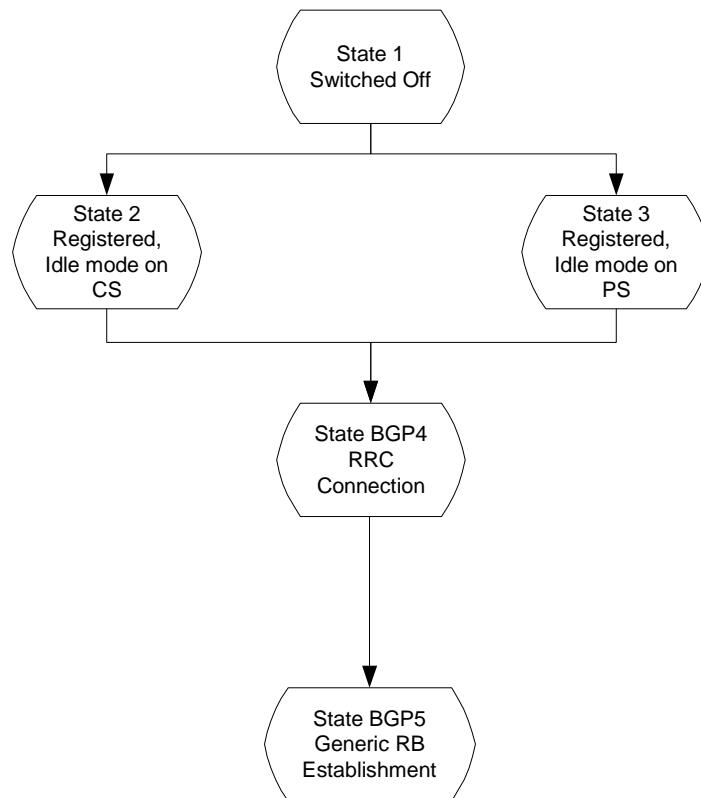


Figure 7.1.1: UE Test States for Basic Generic Procedures

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
UE Information elements				
Paging record list	Paging record	CN originator	Paging cause	Terminating Speech Call (note)
			CN domain identity	CS domain (note)
			UE Identity	TMSI (GSM-MAP) As specified during Registration procedure
Other information elements				
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
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
RB Information Elements			
Use default			
TrCH Information Elements			
Use default			
PhyCH Information Elements			
Frequency info			As specified by default 1 cell environment
Uplink radio resources			
Use default			
Downlink radio resources			
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
UE Information Elements			
Hyper frame number			Not checked
UE radio access capability	Conformance test compliance		R99
	PDCP 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	Downlink		
	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	
	Uplink		
	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	Downlink		
	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	
	Uplink		
	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

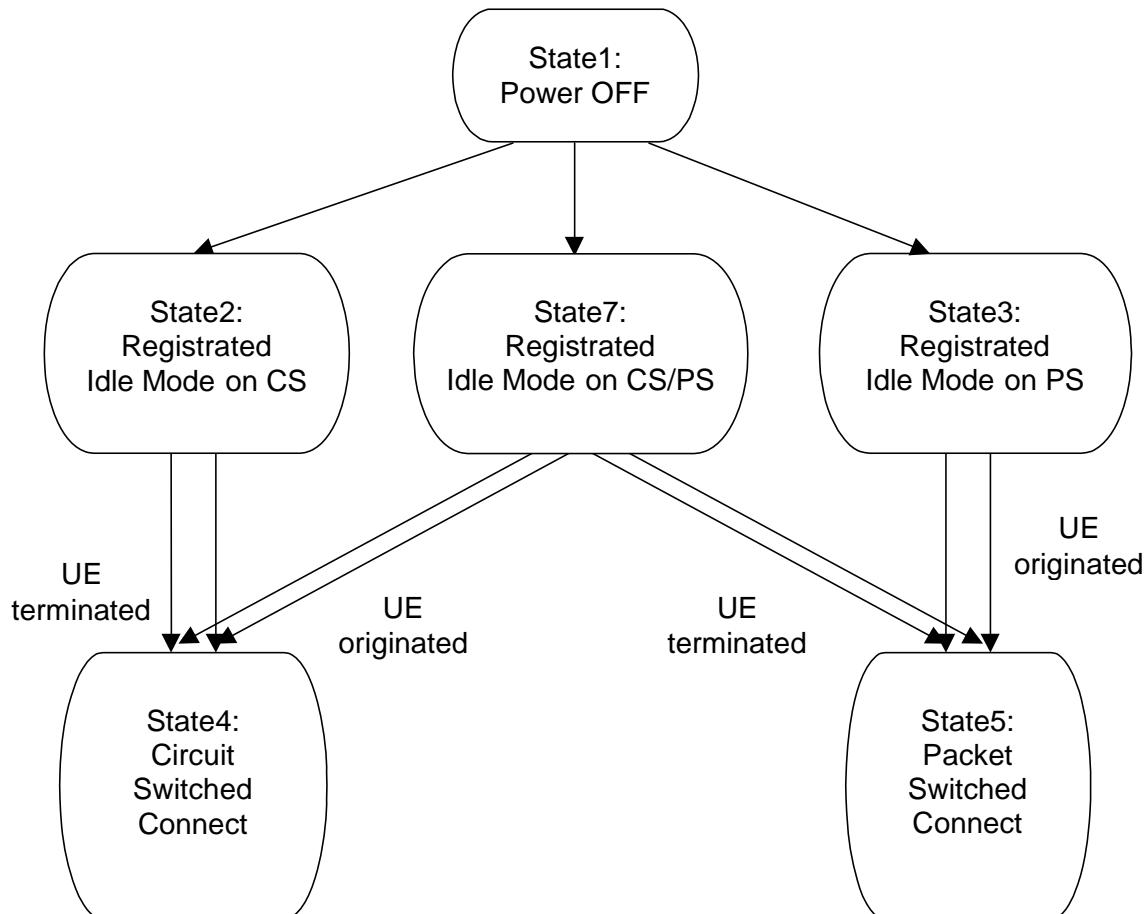


Figure 7.2.1.1: UE Test States for Generic setup procedures

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

		RRC	CC	MM	SM	GMM
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

Network Mode		NMO I	NMO II
UE Mode	PS/CS	7.2.2.3	7.2.2.4
	PS	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.

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.

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	←		SYSTEM INFORMATION (BCCH)	NW Broadcast
1a				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		
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
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.

7.2.4 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 PDP address (set as per PICS/PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message.

NOTE 2: The Rel-8 and later UEs supporting S1 mode shall include interactive or background traffic class in the QoS requested. The Rel-8 and later UEs not supporting S1 mode should include interactive or background traffic class in the QoS requested.

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 PDP address (set as per PICS/PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message.

NOTE 2: The Rel-8 and later UEs supporting S1 mode shall include interactive or background traffic class in the QoS requested. The Rel-8 and later UEs not supporting S1 mode should include interactive or background traffic class in the QoS requested.

7.2.4.2.4 Specific message contents

All Specific message contents shall be referred to clause 9.

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	
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- 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	Infinity
- UE Timers and constants in connected mode	
- 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

7.3.2.3 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

7.3.2.4 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	
- 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

Information Element	Value/remark
- CN domain specific DRX cycle length coefficient - UE Timers and constants in connected mode - T305	7 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

7.3.3.3 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
				- RAB SETUP using Reference Radio Bearer Configuration
14	→		RADIO BEARER SETUP COMPLETE	RRC
15	←		PHYSICAL CHANNEL RECONFIGURATION	RRC
				- RRC state indicator is set to "Cell_PCH" or "URA_PCH" depending on the test case
16	→		PHYSICAL CHANNEL RECONFIGURATION COMPLETE	RRC
17			Void	The UE sends this message before it completes state transition. SS sends the L2 ack on the PHYSICAL CHANNEL RECONFIGURATION COMPLETE message. 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

Information Element	Value/remark
- CHOICE CN Type	GSM-MAP
- 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	Infinity
- UE Timers and constants in connected mode	
- 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	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 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 - RAB SETUP using Reference Radio Bearer Configuration - 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
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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 - RAB SETUP using Reference Radio Bearer Configuration - 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	
- 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

7.3.5.3 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
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7.3.5.3.2 For UE supporting PS only

Step	Direction		Message	Comments
	UE	SS		
1	←		SYSTEM INFORMATION (BCCH)	Broadcast
2	←		PAGING TYPE1 (PCCCH)	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	
- 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

7.3.6.3 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 DPCCH and the HS-DPCCH)

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	
- 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

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 (BCCCH)	Broadcast
2	←		PAGING (PCCH)	Paging
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

Step	Direction		Message	Comments
	UE	SS		
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 - CHOICE CN Type - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain specific DRX cycle length coefficient - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain specific DRX cycle length coefficient - UE Timers and constants in connected mode - T305	PS GSM-MAP 00 00 7 CS GSM-MAP 00(T3212 is set to infinity) 01 7 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

7.3.8.3 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) . 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 DPCCH 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 - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - GSM-MAP NAS system information - CN domain specific DRX cycle length coefficient - CN domain identity - CHOICE CN Type - CN domain specific NAS system information - GSM-MAP NAS system information	PS GSM-MAP 00 00 7 CS GSM-MAP 00(T3212 is set to infinity) 01
- CN domain specific DRX cycle length coefficient - UE Timers and constants in connected mode - T305	7 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 - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset	FDD Not Present FALSE 64 2 FALSE TRUE (default value) Flexible (default value) 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 (BCCCH)	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 - RRC state indicator set to "Cell_PCH" 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 The UE sends this message before it completes state transition.
	<-->		Perform test.
A24	←	PAGING TYPE 1	RRC - RRC state indicator set to "Cell_FACH" 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	'0000000000001'B
-SRNC-Identity	'0000000000000000000000001'B
-S-RNTI	
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	
- 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

7.3.11.3 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	FDD
- CHOICE mode	Not Present
- Secondary scrambling code	FALSE
- 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

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} $N_{B01min}=N_{B01max}$	ms #TTI	N/A 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 (PCCCH)	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) 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)
17	<-->			Perform test.
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 - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority		1 RACH Not Present 7 Explicit list Reference to clause 6 Parameter Set 1 (Note 1)	-

Note 1: The exception is required to get ASC #0 according to 25.321 section 11.2.1. ASC#0 guarantee persistency 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 Dual Cell 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	
- 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

7.3.13.3 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 DPCCH and the HS-DPCCH)

7.4 Common generic procedures for AS testing

7.4.1 UE RRC Test States for common procedures

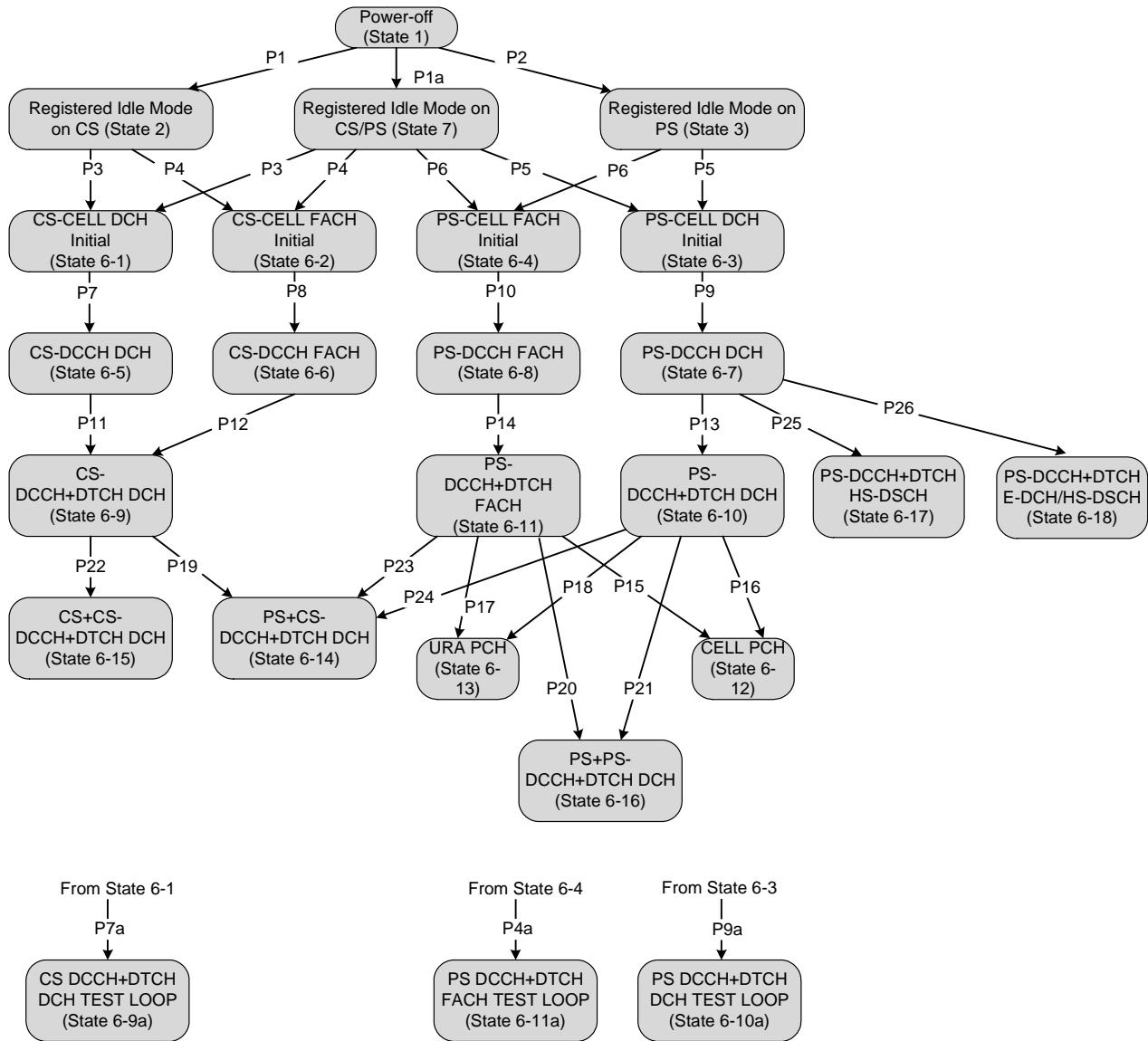


Figure 7.4.1.1: UE RRC test initial states and common procedures

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

		RRC	CC	MM	SM	GMM
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	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 1, state 2, state 3, P1, P2 and P1a are described in clause 7.2. States 6-X (for X=1 to 17) are described below.

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.

7.4.2.5 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..

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.

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
15	→	CLOSE UE TEST LOOP COMPLETE (DCCH)	UE test mode 1 RLC SDU size set as specified for the actual test case. 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

Step	Direction		Message	Comments
	UE	SS		
10		→	RADIO BEARER SETUP COMPLETE	
11		←	ACTIVATE PDP CONTEXT ACCEPT	RRC 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

7.4.2.9 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
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 Performance requirements testing

This clause specifies the procedures that shall be used for testing of A-GPS Performance requirements in TS 34.171 [41].

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 34.171 [41].

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 D.2 of TS 34.171 [41].

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 st 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))

Step	Direction		Message	Comments
	UE	SS		
10	→		RRC MEASUREMENT REPORT	RRC (Position Estimate), 2 nd test instance TC
11	←		RESET UE POSITIONING STORED INFORMATION	
.... n →		RRC MEASUREMENT REPORT	RRC (Position Estimate), n th 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

Contents of MEASUREMENT CONTROL messages: RRC

MEASUREMENT CONTROL (Steps 2 + (n-1)*5):

Information element	Value/remark	Version
Measurement Information Elements		
Measurement Identity	10	
Measurement Command	Setup	
Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode	Acknowledged mode RLC Periodical reporting	
Additional Measurements List	Not present	
CHOICE Measurement type - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE Reporting criteria - No reporting - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS navigation model	UE positioning measurement UE based GPS 128 19 (51 m) 48 (102 m) FALSE FALSE FALSE Not present All states Not present Not present Satellites 1-5 as specified in clause 10	R99 only R99 only
Physical Channel Information Elements		
DPCCH compressed mode status info	Not present	

MEASUREMENT CONTROL (Steps 3 + (n-1)*5):

Information element	Value/remark	Version
Measurement Information Elements		
Measurement Identity	10	
Measurement Command	Modify	
Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode	Acknowledged mode RLC Periodical reporting	
Additional Measurements List	Not present	
CHOICE Measurement type - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE Reporting criteria - No reporting - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS navigation model - UE positioning GPS ionospheric model	UE positioning measurement UE based GPS 128 19 (51 m) 48 (102 m) FALSE FALSE FALSE Not present All states Not present Not present Satellites 6-9 as specified in clause 10 As specified in clause 10	R99 only R99 only
Physical Channel Information Elements		
DPCCH compressed mode status info	Not present	

MEASUREMENT CONTROL (Steps 4 + (n-1)*5):

Information element	Value/remark	Version
Measurement Information Elements		
Measurement Identity	10	
Measurement Command	Modify	
Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode	Acknowledged mode RLC Periodical reporting	
Additional Measurements List	Not present	
CHOICE Measurement type - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE Reporting criteria - Amount of reporting - Reporting Interval - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS reference time - UE positioning GPS reference UE position	UE positioning measurement UE based GPS 128 19 (51 m) 48 (102 m) FALSE FALSE FALSE Not present All states Periodical Reporting Criteria 1 20000 Not present Not present As specified in clause 10 As specified in clause 10	R99 only R99 only
Physical Channel Information Elements		
DPCCH compressed mode status info	Not present	

7.5.2 UE based A-GPS procedure for moving scenario and periodic update test case

The procedure in this clause shall be used for the UE-based A-GPS moving scenario and periodic update test case in CELL_DCH and CELL_FACH state as specified in TS 34.171 [41].

7.5.2.1 Initial conditions

User Equipment:

The UE is in CELL_DCH or CELL_FACH state after executing the procedure defined in clause D.2 of TS 34.171 [41].

7.5.2.2 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)
3	←		RRC MEASUREMENT CONTROL	RRC (Modify, No Reporting, Nav model Satellites 6, 7, 8, 9, Iono Model)
4	←		RRC MEASUREMENT CONTROL	RRC (Modify, Periodical Reporting Criterion, GPS Ref time, ReferencePosition)
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 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 Reporting interval	Infinite (see note) 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 34.171 [41].

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 D.2 of TS 34.171 [41].

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 st 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 nd test instance
13	←		RESET UE POSITIONING STORED INFORMATION	TC
....	
n	→		RRC MEASUREMENT REPORT	RRC (GPS Measured Results), n th 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
Measurement Information Elements		
Measurement Identity	10	
Measurement Command	Setup	
Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode	Acknowledged mode RLC Periodical reporting	
Additional Measurements List	Not present	
<i>CHOICE Measurement type</i> - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - <i>CHOICE Reporting criteria</i> - Amount of reporting - Reporting Interval - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data - UE positioning GPS reference time	UE positioning measurement UE assisted GPS 128 19 (51 m) 48 (102 m) FALSE FALSE TRUE Not present All states Periodical Reporting Criteria 1 20000 Not present Not present As specified in clause 10	R99 only R99 only
Physical Channel Information Elements		
DPCCH compressed mode status info	Not present	

MEASUREMENT REPORT (Steps 3 + (n-1)*6):

Information element	Value/remark	Version
Measurement Information Elements		
Measurement Identity	10	
Measured Results - <i>CHOICE Measurement</i> - UE positioning measured results - UE positioning OTDOA measured results - UE positioning position estimate info - UE positioning GPS measured results - UE positioning error - Error reason - GPS additional assistance data request	Not present Not present Not present Assistance Data Missing 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
Measurement Information Elements		
Measurement Identity	10	
Measurement Command	Modify	
Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode	Acknowledged mode RLC Periodical reporting	
Additional Measurements List	Not present	
CHOICE Measurement type - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE Reporting criteria - No reporting - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data	UE positioning measurement UE assisted GPS 128 19 (51 m) 48 (102 m) FALSE FALSE FALSE Not present All states Not present Not present As specified in clause 10 and requested by the UE in Step 3+(n- 1)*6	R99 only R99 only
Physical Channel Information Elements		
DPCCH compressed mode status info	Not present	

MEASUREMENT CONTROL (Steps 5 + (n-1)*6):

Information element	Value/remark	Version
Measurement Information Elements		
Measurement Identity	10	
Measurement Command	Modify	
Measurement Reporting Mode - Measurement report transfer mode - Periodical reporting / Event trigger reporting mode	Acknowledged mode RLC Periodical reporting	
Additional Measurements List	Not present	
CHOICE Measurement type - UE positioning measurement - UE positioning reporting quantity - Method type - Positioning methods - Response time - Horizontal accuracy - Vertical accuracy - GPS timing of cell wanted - Multiple sets - Additional assistance data request - Environmental characterization - Measurement validity - UE state - CHOICE Reporting criteria - Amount of reporting - Reporting Interval - UE pos OTDOA assistance data for UE-assisted - UE pos OTDOA assistance data for UE-based - UE positioning GPS assistance data	UE positioning measurement UE assisted GPS 128 19 (51 m) 48 (102 m) FALSE FALSE FALSE Not present All states Periodical Reporting Criteria 1 20000 Not present Not present Not present	R99 only R99 only
Physical Channel Information Elements		
DPCCH compressed mode status info	Not present	

7.5.5 UE assisted A-GPS procedure for moving scenario and periodic update test case

The procedure in this clause shall be used for the UE-assisted A-GPS moving scenario and periodic update test case in CELL_DCH and CELL_FACH state as specified in TS 34.171 [41].

7.5.5.1 Initial conditions

User Equipment:

The UE is in CELL_DCH or CELL_FACH state after executing the procedure defined in clause D.2 of TS 34.171 [41].

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 st test instance
7	→		RRC MEASUREMENT REPORT	RRC (GPS Measured Results), 2 nd test instance
.....	→		
n	→		RRC MEASUREMENT REPORT	RRC (GPS Measured Results), n th 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.

7.6 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	Some
- CHOICE Status	
- MBMS Selected Services Full	
- MBMS Selected Service ID	MBMS service ID of the activated MBMS service
- MBMS Service ID	Check to see that one of the below choice element is present (no data)
- CHOICE PLMN identity	
- SameAs-MIB	
- explicitPLMN_Id	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.

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 activate 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

- a) The SS requests the UE to de-activate the requested MBMS broadcast service.
- b) 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

- a) The UE shall be switched on and the unicast carrier mobile termination shall be activated.
- b) 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.
- c) The SS sends ACTIVATE RB TEST MODE on the unicast carrier cell. The UE acknowledges by sending ACTIVATE RB TEST MODE COMPLETE.
- d) The MBMS MBSFN mobile termination shall be activated. (See Note 1)
- e) 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).
- f) The SS requests the UE to activate the requested MBMS broadcast service.
- g) The UE performs an MBSFN cell search, reads System Information and camps on Cell 31.
- h) 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 f1, f2, f3, f4, f5 and the corresponding functions for re-synchronization are f1* and f5*.

For test USIM intended to be used for inter-RAT or GERAN-only test cases then the test USIM shall support the conversion functions c2 and c3 according to 3GPP TS 33.102 [24], clause 6.8.1.2 to derive the GSM SRES and ciphering key Kc 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 f1, f2, f3, f4 and f5 to perform in the test USIM and SS, in order to obtain the XMAC/MAC, RES/XRES, CK, IK, Kc 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:

$$\mathbf{RES}[\text{bits } 0,1,\dots,n-1,n] = \mathbf{f2}(\mathbf{XDOUT},n) = \mathbf{XDOUT}[\text{bits } 0,1,\dots,n-1,n] \quad (\text{with } 30 < n < 128)$$

NOTE: Suggested length for RES is 128 bits (i.e. n = 127).

In SS and AUC, the XRES calculation is identical to RES.

$$\mathbf{CK}[\text{bits } 0,1,\dots,126,127] = \mathbf{f3}(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 8,9,\dots,126,127,0,1,\dots,6,7]$$

$$\mathbf{IK}[\text{bits } 0,1,\dots,126,127] = \mathbf{f4}(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 16,17,\dots,126,127,0,1,\dots,14,15]$$

$$\mathbf{AK}[\text{bits } 0,1,\dots,46,47] = \mathbf{f5}(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 24,25,\dots,70,71]$$

For test USIM intended for inter-RAT testing the GSM ciphering key Kc shall be derived from the UMTS cipher/integrity keys:

$$\mathbf{Kc}[\text{bits } 0,1,\dots,62,63] = \mathbf{c3}(\mathbf{CK},\mathbf{IK}), \text{ see 3GPP TS 33.102 [24], clause 6.8.1.2.}$$

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 **SQN** = **SQN_{MS}** = **SQN_{SS}** = **SQN** = **AMF** = **AUTN** = **AK** where AUTN is the received authentication token.

Step 4:

XMAC (test USIM) and **MAC** (SS) are calculated from **XDOOUT** and **CDOOUT** this way:

$$\mathbf{XMAC}[\text{bits } 0,1,\dots,62,63] = \mathbf{f1}(\mathbf{XDOOUT}, \mathbf{CDOOUT}) = \mathbf{XDOOUT}[\text{bits } 0,1\dots,62,63] \text{ XOR } \mathbf{CDOOUT}[\text{bits } 0,1,\dots,62,63]$$

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 $f1^*$ and $f5^*$, which in the test algorithm are identical to $f1$ and $f5$, 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 **XDOOUT** of this is:

$$\mathbf{XDOOUT}[\text{bits } 0,1,\dots,126,127] = \mathbf{K}[\text{bits } 0,1,\dots,126,127] \text{ XOR } \mathbf{RAND}[\text{bits } 0,1,\dots,126,127]$$

Step 2:

AK is extracted from **XDOOUT** this way:

$$\mathbf{AK}[\text{bits } 0,1,\dots,46,47] = \mathbf{f5}^*(\mathbf{XDOOUT}) = \mathbf{XDOOUT}[\text{bits } 24,25,\dots,70,71]$$

Step 3:

Concatenate **SQN_{MS}** with **AMF*** to obtain **CDOOUT** like this:

$$\mathbf{CDOOUT}[\text{bits } 0,1,\dots,62,63] = \mathbf{SQN}_{\text{MS}}[\text{bits } 0,1,\dots,46,47] \parallel \mathbf{AMF}^*[\text{bits } 0,1,\dots,14,15]$$

Where **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 **XDOOUT** and **CDOOUT** this way:

$$\mathbf{MAC-S}[\text{bits } 0,1,\dots,62,63] = \mathbf{f1}^*(\mathbf{XDOOUT}, \mathbf{CDOOUT}) = \mathbf{XDOOUT}[\text{bits } 0,1\dots,62,63] \text{ XOR } \mathbf{CDOOUT}[\text{bits } 0,1,\dots,62,63]$$

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**:

$$\text{AUTS}[\text{bits } 0,1,\dots,110,111] = \text{SQN}_{\text{MS}} \oplus \text{AK}[\text{bits } 0,1,\dots,46,47] \parallel \text{MAC-S}[\text{bits } 0,1,\dots,62,63]$$

$$\text{Where } \text{SQN}_{\text{MS}} \oplus \text{AK}[\text{bits } 0,1,\dots,46,47] = \text{SQN}_{\text{MS}} [\text{bits } 0,1,\dots,46,47] \text{ XOR } \text{AK}[\text{bits } 0,1,\dots,46,47]$$

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.

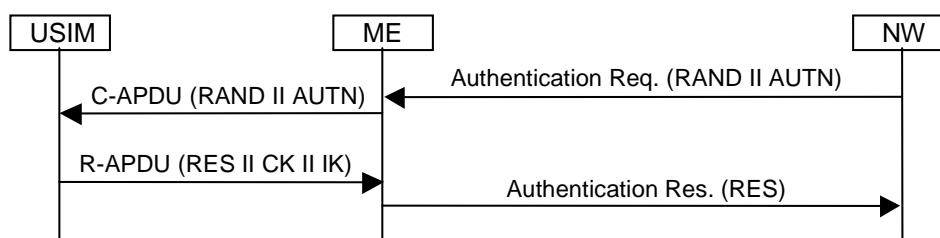


Figure 8.1.2.3.1: Network accepted by UE (USIM not supporting derivation of GSM cipher key Kc)

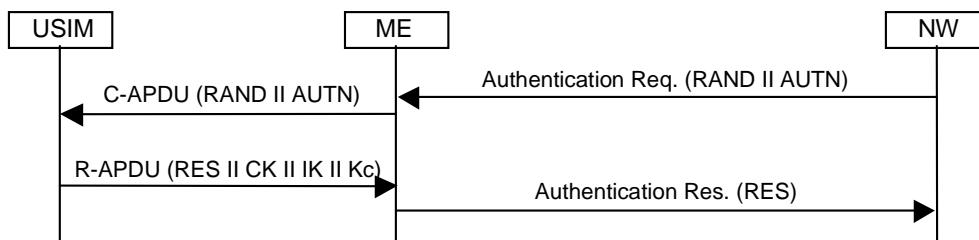


Figure 8.1.2.3.2: Network accepted by UE (USIM supporting derivation of GSM cipher key Kc)

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").

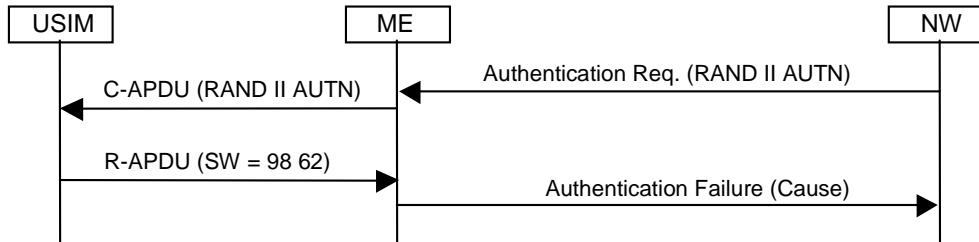


Figure 8.1.2.3.2: MAC failure cases

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 AUTC parameter.

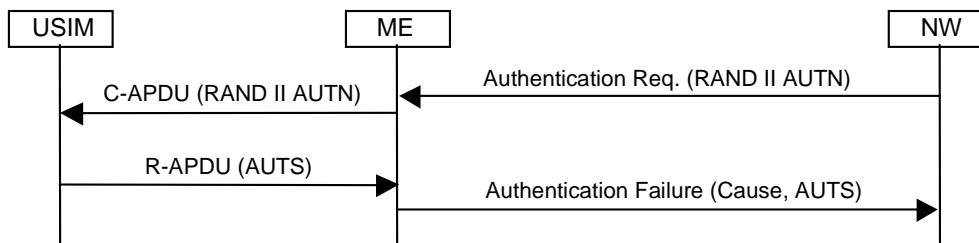


Figure 8.1.2.3.3: SQN failure case

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_{DIR}**

8.3.1.2 **EF_{ICCID} (ICC Identity)**

The programming of this EF is a test house option.

8.3.1.3 **EF_{PL} (Preferred Languages)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.1.4 **EF_{ARR} (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_{LI} (Language Indication)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.2 **EF_{IMSI} (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_{Keys} (Ciphering 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_{KeysPS} (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_{PLMNwAcT} (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: C0 B0 (Access Technology) - Translates to UTRAN, E-UTRAN, GSM, cdma2000 HRPD, cdma2000 1xRTT

Bytes 6 to 8: 32 F4 20 (MCC, MNC)

Bytes 9 to 10: C0 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: C0 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_{HPPLMN} (Higher Priority PLMN search period)

File size: 1 byte

Default value (HEX): 00 (No higher priority PLMN search attempts)

8.3.2.7 EF_{ACMmax} (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_{UST} (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	
Service n°11:	Short Message Status Reports (SMSR)	Option	
Service n°12:	Short Message Service Parameters (SMSP)	Yes	

Services		Activated	Version
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 _{VGCS} and EF _{VGCSS})	YES	
Service n°58:	VBS Group Identifier List (EF _{VBS} and EF _{vBSS})	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
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

Services		Activated	Version
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-8 and later

8.3.2.9 EF_{ACM} (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_{GID1} (Group Identifier Level 1)

The programming of this EF is a test house option.

8.3.2.11 EF_{GID2} (Group Identifier Level 2)

The programming of this EF is a test house option.

8.3.2.12 EF_{SPN} (Service Provider Name)

The programming of this EF is a test house option.

8.3.2.13 EF_{PUCT} (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_{CBMI} (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_{ACC} (Access Control Class)

The EFACC can be selected by a test house in two types.

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_{FPLMN} (Forbidden PLMNs)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.17 EF_{LOCI} (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_{AD} (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_{CBMID} (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_{ECC} (Emergency Call Codes)

The programming of this EF is a test house option.

8.3.2.22 EF_{CBMIR} (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_{PSLOCI} (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_{FDN} (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_{SMS} (Short messages)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.26 EF_{MSISDN} (MSISDN)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.27 EF_{SMSP} (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_{SMSS} (SMS status)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.29 EF_{SDN} (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_{EXT2} (Extension2)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.31 EF_{EXT3} (Extension3)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.32 EF_{SMSR} (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_{ICI} (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_{OCL} (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_{ICT} (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_{OCT} (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_{EXT5} (Extension5)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.38 EF_{CCP2} (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_{eMLPP} (enhanced Multi Level Precedence and Pre-emption)

The programming of this EF is a test house option.

8.3.2.40 EF_{AAeM} (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_{Hiddenkey} (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_{BDN} (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_{EXT4} (Extension 4)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.46 EF_{CMI} (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_{EST} (Enabled service table)

The programming of this EF is a test house option.

8.3.2.48 EF_{ACL} (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_{DCK} (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_{CNL} (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_{START-HFN} (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_{THRESHOLD} (Maximum value of START)

The programming of this EF is a test house option.

8.3.2.53 EF_{OPLMNwACT} (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_{HPLMNwAcT} (HPLMN selector with Access Technology)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.55 EF_{ARR} (Access rule reference)

The programming of this EF is a test house option.

8.3.2.56 Void

8.3.2.57 EF_{NETPAR} (Network Parameters)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.58 EF_{PNN} (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_{OPL} (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_{MBDN} (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_{EXT6} (Extension6)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.62 EF_{MBI} (Mailbox Identifier)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.63 EF_{MWIS} (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_{CFIS} (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_{EXT7} (Extension7)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.66 EF_{SPDI} (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_{MMSN} (MMS Notification)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.68 EF_{EXT8} (Extension 8)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.69 EF_{MMSICP} (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_{MMSUP} (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_{MMSUCP} (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_{NIA} (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
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

Bytes	Group ID	Value	BCD encoding in the USIM
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_{VGCS} (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_{VGCS}. This EF shall always be allocated if EF_{VGCS} 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_{VBS} (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
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

Bytes	Group ID	Value	BCD encoding in the USIM
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_{VBSS} (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_{VBS}. This EF shall always be allocated if EF_{VBS} 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_{VGCSA} (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_{VGCS}).

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_{VBSA} (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_{VBS}).

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_{GBABP} (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_{MSK} (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_{MUK} (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_{GBANL} (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_{EHPLMN} (Equivalent HPLMN)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.2.85 EF_{EHPLMNPI} (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_{LRPLMNSI} (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_{NAFKCA} (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_{SPNI} (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_{PNNI} (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_{NCP-IP} (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_{EPSLOCI} (EPS location information)

The programming of this EF is a test house option.

8.3.2.92 EF_{EPNSNC} (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_{SAI} (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_{SLL} (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_{MExE-ST} (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_{ORPK} (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_{ARPK} (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_{TPRPK} (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_{TKCDF} (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_{PBR} (Phone Book Reference file)

The programming of this EF is a test house option.

8.3.3.2.2 EF_{IAP} (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_{ADN} (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_{EXT1} (Extension1)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.3.2.5 EF_{PBC} (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_{GRP} (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_{AAS} (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_{GAS} (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_{ANR} (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_{SNE} (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_{CCP1} (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_{UID} (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_{PSC} (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_{CC} (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_{PUID} (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_{EMAIL} (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_{Kc} (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_{KcGPRS} (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_{CPBCCH} (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_{InvScan} (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_{ACSGL} (Allowed CSG Lists)

The programming of this EF is a test house option.

8.3.3.4.2 EF_{CSGT} (CSG Type)

The programming of this EF is a test house option.

8.3.3.4.3 EF_{HNBN} (Home (e)NodeB Name)

The programming of this EF is a test house option.

8.3.3.4.4 EF_{OCSGL} (Operator CSG Lists)

The programming of this EF is a test house option.

8.3.3.4.5 EF_{OCSGT} (Operator CSG Type)

The programming of this EF is a test house option.

8.3.3.4.6 EF_{OHNBN} (Operator HomeNodeB 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_{ADN} (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_{EXT1} (Extension1)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

8.3.4.3 EF_{ECCP} (Extended Capability Configuration Parameter)

The programming of this EF is a test house option.

8.3.4.4 EF_{SUME} (SetUpMenu Elements)

The programming of this EF is a test house option.

8.3.4.5 EF_{ARR} (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_{GRAPHICS} level

8.3.5.1.1 EF_{IMG} (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_{PHONEBOOK} under the DF_{TELECOM}

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	Rel-6
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
Maximum allowed UL TX power	Not Present - use default value	
Radio link addition information	Not Present	
Radio link removal information	Not Present	
TX Diversity Mode	None	
SSDT information	Not Present	R99 and Rel-4 only
DPC Mode	[FFS]	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
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

Contents of ACTIVE SET UPDATE COMPLETE 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 ACTIVE SET UPDATE message
Integrity check info - Message authentication code - RRC Message sequence number	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. 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 RRC transaction identifier	Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message
Integrity check info - Message authentication code - RRC Message sequence number	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. 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 U-RNTI - SRNC identity - S-RNTI	Checked to see if it is set to the following values 0000 0000 0001B 0000 0000 0000 0001B	
RRC transaction identifier	Checked to see if it is absent	
Integrity check info - Message authentication code - RRC Message sequence number	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. 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 .	
	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.	Rel-6
- CN domain identity - START	Checked to see if it is one of the supported CN domains 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) AM_RLC error indication (RB>4)	Checked to see if it is set to 'FALSE'	
Cell update cause	Checked to see if it is set to 'FALSE'	
Traffic volume indicator	See the specific test case	
Failure cause	Checked to see if it is absent	
RB timer indicator - T314 expired - T315 expired	Checked to see if it is absent	
Establishment cause	Checked to see if it is set to 'FALSE'	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	
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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. 0000 0000 0001B 0000 0000 0000 0000 0001B	
- SRNC identity		
- 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. SS provides the value of this IE, from its internal counter.	
- RRC message sequence number		
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	
New H-RNTI	Not Present	
New Primary E-RNTI	Not present	Rel-5
New Secondary E-RNTI	Not present	Rel-6
RRC State indicator	CELL_FACH	Rel-6
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	
RB information to release list	Not Present	Rel-7
RB information to reconfigure list	Not Present	
RB information to be affected list	Not Present	
Downlink counter synchronization info	Not Present	
PDCP ROHC target mode	Not Present	
UL Transport channel information common for all transport channels	Not Present	Rel-5
Deleted TrCH information list	Not Present	
Added or Reconfigured TrCH information list	Not Present	
CHOICE Mode	FDD	
- CPCH set ID	Not Present	
- 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
Maximum allowed UL TX power	Not Present	
CHOICE channel requirement	Not Present	
E-DCH Info	Not Present	
CHOICE mode	FDD	
- Downlink PDSCH information	Not Present	R99 and Rel-4 only
Downlink HS-PDSCH Information	Not Present	R99 and Rel-4 only
Downlink information common for all radio	Not Present	Rel-5

Information Element	Value/remark	Version
links		
Downlink information per radio link list	Not Present	
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 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	Rel-6
CN domain identity	Checked to see if set to supported CN domain as specified in the IXIT statements.	
Intra Domain NAS Node Selector		
- CHOICE version		
- CHOICE CN type	R99	
- CHOICE Routing basis	GSM-MAP	
- Routing parameter	Local (P)TMSI If the IE "CN domain identity" is equal to "CS domain", this bit string is set to bits b14 through b23 of the TMSI. 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. 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 The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. 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	
Measured results on RACH	Not checked	Rel-5
MBMS joined information	This IE is checked to see if it is absent	Rel-6

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 Mode	FDD	Rel-6
- Channelisation code	Reference to clause 5.5.1.4 "Downlink physical channels code allocation for MBMS test cases"	Rel-6

Information Element	Value/remark	Version
- Number of NI per frame	18	Rel-6
- STTD indicator	FALSE	Rel-6
Cell group identity	'000000000001' (cells with mid range UARFCN) '000000000010' (cells with low range UARFCN) '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 mode	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 mode	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). 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	
- New intra-frequency cell	
- Intra-frequency cell-id	
- 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
- Primary CPICH info	Different from the Default setting in clause 6.1 (FDD)
- Primary scrambling code	Not Present
- Primary CPICH Tx power	FALSE
- TX Diversity indicator	Not present
- Cells for measurement	Not Present
- Intra-frequency measurement quantity	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- Cell synchronization information reporting indicator	FALSE
- Cell Identity reporting indicator	TRUE
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- Cell synchronization information reporting indicator	FALSE
- Cell Identity reporting indicator	TRUE
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	
- Reporting cell status	Not Present
- CHOICE reported cell	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	2
- Measurement validity	Not Present
- CHOICE report criteria	Periodic reporting criteria
- Amount of reporting	Infinity
- Reporting interval	64 s
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	
- 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	See the test content

Contents of MEASUREMENT REPORT 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.	
Measurement identity		
Measured Results		
- Intra-frequency measured results		
- Cell measured results		
- Cell Identity	Not present	
- Cell synchronization information	Checked that this IE is absent	
- Primary CPICH info		
- Primary scrambling code	Different from the Default setting in clause 6.1 (FDD)	

- CPICH Ec/N0	Checked that this IE is absent	
- CPICH RSCP	Checked that this IE is present	
- Pathloss	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	Checked that this IE is absent	
GSM OTD reference cell	Checked that this IE is absent	Rel-4
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	
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
ETWS information	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
ETWS information	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	
- P-TMSI	Use P-TMSI allocated by SS at initial attach.
BCCH modification info	Not Present
ETWS information	Not Present

Contents of PAGING TYPE 1 message: TM (SMS in CS)

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	CS 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 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	
RRC State indicator	A5, A6	CELL_FACH	
RRC State indicator	A7, A8	URA_PCH	
RRC State indicator	A9, A10	CELL_PCH	

Information Element	Condition	Value/remark	Version
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	Rel-7
Reconfiguration in response to requested change of UE capability		Not Present	Rel-7
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] Reference to clause 5.1 Test frequencies	
- UARFCN downlink (Nd)			
Frequency info	A6, A7, A8, A9, A10	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
HARQ Info		Not Present	Rel-7
Maximum allowed UL TX power		33dBm	
CHOICE channel requirement	A5, A6, A7, A8, A9, A10	Not Present	
CHOICE channel requirement	A1, A2, A3, A4	Uplink DPCH info	
- Uplink DPCH power control info		-40 (-80dB)	
- DPCCH power offset		1 frame	
- PC Preamble		7 frames	
- SRB delay		Algorithm1	
- Power Control Algorithm		0 (1dB)	
- TPC step size		Not Present	Rel-5
- Δ_{ACK}		Not Present	Rel-5
- Δ_{NACK}		Not Present	Rel-5
- Ack-Nack repetition factor		Not Present	Rel-5
- HARQ_preamble_mode		0	Rel-6
- 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	
- 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	Rel-7
- Puncturing Limit		Reference to clause 6.10 Parameter Set	
E-DCH Info		Not Present	Rel-6
CHOICE Mode	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	FDD	Rel-6
- Downlink PDSCH information		Not Present	R99 and Rel-4 only
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	Not Present	Rel-5
Downlink information common for all radio links	A1, A2, A3		
- Downlink DPCH info common for all RL		Maintain Not Present	
- Timing indicator			
- CFN-targetSFN frame offset			
- Downlink DPCH power control information			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
- Power offset $P_{Pilot-DPDCH}$		0	
- DL rate matching restriction information		Not Present	

Information Element	Condition	Value/remark	Version
- Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value - MAC-hs reset indicator		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present None Not Present Not Present Not Present	R99 and Rel-4 only Rel-5
Downlink information common for all radio links	A4		
- Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{\text{Pilot-DPDCH}}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value - MAC-hs reset indicator		Initialize Not Present 0 (single) FDD 0 Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present None Not Present Arbitrary set to value 0..306688 by step of 512 Not Present Not Present	R99 and Rel-4 only Rel-5
Downlink information common for all radio links	A5, A6, A7, A8, A9, A10		
Downlink information for each radio links	A1, A2,A3		
- Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - CHOICE mode - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change		FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present FALSE FALSE FDD Primary CPICH may be used Set to value : Default DPCH Offset Value (as currently stored in SS) mod 38400 Not Present 5 Reference to clause 6.10 Parameter Set 0 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 R99 and Rel-4 only Rel-5 Rel-6 R99 and Rel-4 only R99 and Rel-4 only Rel-5

Information Element	Condition	Value/remark	Version
- TPC combination index - SSDT Cell Identity		Set to value Default2: OMIT (otherwise) 0 Not Present	R99 and Rel-4 only
- Closed loop timing adjustment mode - E-AGCH Info - E-HICH Information - E-RGCH Information - SCCPCH information for FACH		Not Present Not Present Not Present Not Present	Rel-6 Rel-6 Rel-6 R99 and Rel-4 only
Downlink information for each radio links	A4	FDD	
- Choice mode - Primary CPICH info - Primary scrambling code		Ref. to the Default setting in clause 6.1 (FDD) 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	
- Serving E-DCH radio link indicator		FALSE	Rel-6
- 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 - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change		5 Reference to clause 6.10 Parameter Set 0 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") Set to value Default2: OMIT (otherwise)	
- TPC combination index - SSDT Cell Identity		0 Not Present	R99 and Rel-4 only
- Closed loop timing adjustment mode		Not Present	
- E-AGCH Info - E-HICH Information - E-RGCH Information - SCCPCH information for FACH		Not Present Not Present Not Present Not Present	Rel-6 Rel-6 Rel-6 R99 and Rel-4 only
- Downlink information for each radio link	A5	FDD	
- Choice mode		Ref. to the Default setting in clause 6.1 (FDD)	
- Primary CPICH info		Not Present	R99 and Rel-4 only
- Primary scrambling code		Not Present	R99 and Rel-4 only
- PDSCH with SHO DCH info		Not Present	Rel-5
- PDSCH code mapping		Not Present	Rel-6
- Serving HS-DSCH radio link indicator		FALSE	
- Serving E-DCH radio link indicator		FALSE	
- Downlink DPCH info for each RL		Not Present	
- E-AGCH Info		Not Present	Rel-6
- E-HICH Information		Not Present	Rel-6
- E-RGCH Information		Not Present	Rel-6

Information Element	Condition	Value/remark	Version
- SCCPCH Information for FACH		Not Present	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 CHOICE mode	Not checked 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, A18, A19, A19a,			RBS-003
			Rel-5	RBS-004
			Rel-6	RBS-005
			Rel-7	RBS-006

Information Element	Condition	Value/remark	Version	Index
	A20, A21, A22 , A23, A24 , A25, A25a, A25b, A26, A27, A28, A29, A30 , A31, A32		Rel-7 Rel-8 Rel-8 Rel-9	RBS-007 RBS-008 RBS-009
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3		RBS-010
Integrity check info - message authentication code - RRC message sequence number		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 RBS-012 RBS-013
Integrity protection mode info		Not Present		RBS-014
Ciphering mode info		Not Present		RBS-015
Activation time	A1, A2, A3, A11 , A9 , A12, A13, A14, A15, A16 , A17, A17a, A17b, A17d, A17e, A18, A19, A19a, A20, A21, A22 , A23 , A25, A25a, A25b, A26, A27, A27a, A28, A30	(256+CFN-(CFN MOD 8 + 8))MOD 256	Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8	RBS-016 RBS-017 RBS-018 RBS-019 RBS-020 RBS-021
Activation time	A4, A5, A6, A7, A8 A10, A24, A29 , A31, A32	Not Present	Rel-5 Rel-8 Rel-9	RBS-022 RBS-023 RBS-024 RBS-025
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,, A18, A19, A19a, A20, A21, A22, A24 , A23 , A25, A25a, A25b, A26, A27, A27a, A28, A29, A30 , A31, A32	Not Present	Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9	RBS-026 RBS-027 RBS-028 RBS-029 RBS-030 RBS-031 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,	Not Present	Rel-5 Rel-6 Rel-7	RBS-033 RBS-034 RBS-035 RBS-036

Information Element	Condition	Value/remark	Version	Index
	A18, A19, A19a, A20, A21, A22, A24 , A23 , A25, A25a, A25b, A26, A27, A27a, A28, A29, A30 , A31, A32		Rel-7 Rel-8 Rel-8 Rel-9	RBS-037 RBS-038 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 , A29, A30 , A31, A32	Not Present	Rel-5 Rel-9	RBS-042 RBS-043 RBS-044
New H-RNTI	A9, A10 A12, A13, A14, A15, A16 , A17, A17a, A17b, A17c, A17d, A17e, A18, A19, A19a, A20, A21, A22, A24 , A23 , A25, A25a, A25b, A26, A27, A27a, A28	'1010 1010 1010 1010'	Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8	RBS-045 RBS-046 RBS-047 RBS-048 RBS-049
New Primary E-RNTI	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11 , A17, A17a, A18, A24 , A25, A25a, A25b, A28, A29, A30 , A31, A32	Not Present	Rel-6 Rel-7 Rel-8 Rel-9	RBS-050 RBS-051 RBS-052 RBS-053
New Primary E-RNTI	A12, A13, A14, A15, A16, A17b, A17c, A17d, A17e A19, A19a, A20, A21, A22 , A23 A26, A27, A27a	'1010 1010 1010 1010'	Rel-6 Rel-7 Rel-7 Rel-8 Rel-8	RBS-054 RBS-055 RBS-056 RBS-057
New Secondary E-RNTI	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16 , A17, A17a, A17b, A17c, A17d, A17e, A18, A19, A19a, A20, A21, A22, A24 , A23 , A25, A25a, A25b, A26, A27, A27a, A28, A29, A30 , A31, A32	Not Present	Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9	RBS-058 RBS-059 RBS-060 RBS-061 RBS-062
RRC State indicator	A1, A2, A3, A4, A7, A8, A11 , A9, A10	CELL_DCH	Rel-5	RBS-063 RBS-064

Information Element	Condition	Value/remark	Version	Index
	, A12, A13, A14, A15, A16 , A17, A17a, A17b, A17c, A17d, A17e, A18, A19, A19a, A20, A21, A22 , A23 , A25, A25a, A25b, A26, A27, A27a, A28, A30 , A31, A32		Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9	RBS-065 RBS-066 RBS-067 RBS-068 RBS-069
RRC State indicator	A5, A6, A24 A29	CELL_FACH	Rel-7	RBS-070 RBS-071 RBS-072
UTRAN DRX cycle length coefficient	A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10 , A12, A13, A14, A15, A16 , A17, A17a, A17b, A17c, A17d, A17e, A18, A19, A19a, A20, A21, A22, A24 , A23 , A25, A25a, A25b , A26, A27, A27a, A28, A29, A30 , A31, A32	Not Present	Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9	RBS-073 RBS-074 RBS-075 RBS-076 RBS-077 RBS-078 RBS-079
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		0000 0001B		RBS-086
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-087
- CN domain identity		CS domain		RBS-088
- NAS Synchronization Indicator		Not Present		RBS-089
- Re-establishment timer		useT314		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

Information Element	Condition	Value/remark	Version	Index
- 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 The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-117
- CN domain identity		CS domain		RBS-118
- NAS Synchronization Indicator		Not Present		RBS-119
- Re-establishment timer		useT314		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 option				RBS-131
- RLC logical channel mapping		Not Present		RBS-132

Information Element	Condition	Value/remark	Version	Index
indicator		1		RBS-133
- Number of uplink RLC logical channels		DCH		RBS-134
- Uplink transport channel type		1		RBS-135
- UL Transport channel identity		Not Present		RBS-136
- Logical channel identity		Configured		RBS-137
- CHOICE RLC size list		6		RBS-138
- MAC logical channel priority				RBS-139
- Downlink RLC logical channel info		1		RBS-140
- Number of downlink RLC logical channels		DCH		RBS-141
- Downlink transport channel type		6		RBS-142
- DL DCH Transport channel identity		Not Present		RBS-143
- DL DSCH Transport channel identity		Not Present		RBS-144
- Logical channel identity		Not Present		RBS-145
- RB identity		11		RBS-146
- PDCP info		Not Present		RBS-147
- CHOICE RLC info type		RLC info		RBS-148
- CHOICE Uplink RLC mode		TM RLC		RBS-149
- Transmission RLC discard		Not Present		RBS-150
- Segmentation indication		FALSE		RBS-151
- CHOICE Downlink RLC mode		TM RLC		RBS-152
- Segmentation indication		FALSE		RBS-153
- RB mapping info				RBS-154
- Information for each multiplexing option		Not Present		RBS-155
- RLC logical channel mapping indicator		1		RBS-156
- Number of uplink RLC logical channels		DCH		RBS-157
- Uplink transport channel type		2		RBS-158
- UL Transport channel identity		Not Present		RBS-159
- Logical channel identity		Configured		RBS-160
- CHOICE RLC size list		6		RBS-161
- MAC logical channel priority				RBS-162
- Downlink RLC logical channel info		1		RBS-163
- Number of downlink RLC logical channels		DCH		RBS-164
- Downlink transport channel type		7		RBS-165
- DL DCH Transport channel identity		Not Present		RBS-166
- DL DSCH Transport channel identity		Not Present		RBS-167
- Logical channel identity		12		RBS-168
- RB identity				

Information Element	Condition	Value/remark	Version	Index
- 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 option				RBS-177
- RLC logical channel mapping indicator		Not Present		RBS-178
- Number of uplink RLC logical channels		1		RBS-179
- Uplink transport channel type		DCH		RBS-180
- UL Transport channel identity		3		RBS-181
- Logical channel identity		Not Present		RBS-182
- CHOICE RLC size list		Configured		RBS-183
- MAC logical channel priority		6		RBS-184
- Downlink RLC logical channel info				RBS-185
- Number of downlink RLC logical channels		1		RBS-186
- Downlink transport channel type		DCH		RBS-187
- DL DCH Transport channel identity		8		RBS-188
- DL DSCH Transport channel identity		Not Present		RBS-189
- Logical channel identity		Not Present		RBS-190
- RAB information for setup	A3, A4, A5, A6			RBS-191
- RAB info		(AM DTCH for PS domain)		RBS-192
- RAB identity		0000 0101B		RBS-193
- CN domain identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		
- NAS Synchronization Indicator		PS domain		RBS-194
- Re-establishment timer		Not Present		RBS-195
- RB information to setup		useT315		RBS-196
- RB identity				RBS-197
- PDCP info		20		RBS-198
- Support for lossless SRNS relocation				RBS-199
- Max PDCP SN window size		FALSE		RBS-200
- PDCP PDU header		Not present		RBS-201
- Header compression information		Absent		RBS-202
		Not present		RBS-203

Information Element	Condition	Value/remark	Version	Index
- CHOICE RLC info type		RLC info		RBS-204
- CHOICE Uplink RLC mode		AM RLC		RBS-205
- Transmission RLC discard				RBS-206
- CHOICE SDU discard mode		No Discard		RBS-207
- MAX_DAT		15		RBS-208
- Transmission window size		128		RBS-209
- Timer_RST		500		RBS-210
- Max_RST		4		RBS-211
- Polling info				RBS-212
- Timer_poll_prohibit		200		RBS-213
- Timer_poll		200		RBS-214
- Poll_PDU		Not Present		RBS-215
- Poll_SDU		1		RBS-216
- Last transmission PDU poll		TRUE		RBS-217
- Last retransmission PDU poll		TRUE		RBS-218
- Poll_Windows		99		RBS-219
- Timer_poll_periodic		Not Present		RBS-220
- CHOICE Downlink RLC mode		AM RLC		RBS-221
- CHOICE Downlink RLC PDU		Reference to clause 6 Parameter Set	Rel-5	RBS-222
Size	- In-sequence delivery	TRUE		RBS-223
	- Receiving window size	128		RBS-224
	- Downlink RLC status info			RBS-225
	- Timer_status_prohibit	200		RBS-226
	- Timer_EPC	Not Present		RBS-227
	- Missing PDU indicator	TRUE		RBS-228
	- Timer_STATUS_periodic	Not Present		RBS-229
	- RB mapping info			RBS-230
	- Information for each multiplexing option	2 RBMuxOptions		RBS-231
	- RLC logical channel mapping indicator	Not Present		RBS-232
info	- Number of uplink RLC logical channels	1		RBS-233
	- 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
	- Number of downlink RLC logical channels	1		RBS-240

Information Element	Condition	Value/remark	Version	Index
- Downlink transport channel type	DCH		RBS-241	
- DL DCH Transport channel identity	6		RBS-242	
- DL DSCH Transport channel identity	Not Present		RBS-243	
- Logical channel identity	Not Present		RBS-244	
- RLC logical channel mapping indicator	Not Present		RBS-245	
- Number of uplink RLC logical channels	1		RBS-246	
- 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 info			RBS-253	
- Number of downlink RLC logical channels	1		RBS-254	
- Downlink transport channel type	FACH		RBS-255	
- DL DCH Transport channel identity	Not Present		RBS-256	
- DL DSCH Transport channel identity	Not Present		RBS-257	
- Logical channel identity	7		RBS-258	
- RAB information for setup	A9	(high-speed AM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain	Rel-5	RBS-259
- RAB info		Not Present		RBS-260
- RAB identity		useT315		RBS-261
- CN domain identity				RBS-262
- NAS Synchronization Indicator				RBS-263
- Re-establishment timer				RBS-264
- RB information to setup				RBS-265
- RB identity	25			RBS-266
- PDCP info				RBS-267
- Support for lossless SRNS relocation		FALSE		RBS-268
- Max PDCP SN window size		Not present		RBS-269
- PDCP PDU header		Absent		RBS-270
- Header compression information		Not present		RBS-271
- 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

Information Element	Condition	Value/remark	Version	Index
- 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
- 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
Size	- CHOICE Downlink RLC PDU	Reference to clause 6 Parameter Set		RBS-290
	- 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-establishment	FALSE		RBS-298
	- RB mapping info			RBS-299
	- Information for each multiplexing option	3 RBMuxOptions		RBS-300
	- RLC logical channel mapping indicator	Not Present		RBS-301
info	- Number of uplink RLC logical channels	1		RBS-302
	- 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
	- Number of downlink RLC logical channels	1		RBS-309
	- Downlink transport channel type	DCH		RBS-310
	- DL DCH Transport channel identity	6		RBS-311
	- DL DSCH Transport channel identity	Not Present		RBS-312

Information Element	Condition	Value/remark	Version	Index
- DL HS-DSCH MAC-d flow identity		Not Present		RBS-313
- Logical channel identity		Not Present		RBS-314
- RLC logical channel mapping indicator		Not Present		RBS-315
- Number of uplink RLC logical channels		1		RBS-316
- 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 info				RBS-322
- Number of downlink RLC logical channels		1		RBS-323
- Downlink transport channel type		HS-DSCH		RBS-324
- DL DCH Transport channel identity		Not Present		RBS-325
- DL DSCH Transport channel identity		Not Present		RBS-326
- DL HS-DSCH MAC-d flow identity		0		RBS-327
- Logical channel identity		Not Present		RBS-328
- RLC logical channel mapping indicator		Not Present		RBS-329
- 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 info				RBS-337
- 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 The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-345
- CN domain identity		PS domain		RBS-346
- NAS Synchronization Indicator		Not Present		RBS-347

Information Element	Condition	Value/remark	Version	Index
- 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 information		Not present		RBS-355
- 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
- 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 for each multiplexing option		1 RBMuxOption		RBS-384

Information Element	Condition	Value/remark	Version	Index
- 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	(AM DTCH for PS domain)		RBS-399
- RAB info		0000 0101B		RBS-400
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain		RBS-401
- CN domain identity				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 information		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

Information Element	Condition	Value/remark	Version	Index
- 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
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
- Missing PDU indicator		TRUE		RBS-436
- Timer_STATUS_periodic		Not Present		RBS-437
- RB mapping info				RBS-438
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
info				RBS-447
- Downlink RLC logical channel				RBS-448
logical channels		1		RBS-448
- Downlink transport channel type		DCH		RBS-449
identity		9		RBS-450
- DL DCH Transport channel identity		Not Present		RBS-451
- DL DSCH Transport channel identity		Not Present		RBS-452
- Logical channel identity		Not Present		RBS-453
- RLC logical channel mapping indicator		Not Present		RBS-454
- Number of uplink RLC logical channels		1		RBS-455
- Uplink transport channel type		RACH		RBS-456
- UL Transport channel identity		Not Present		

Information Element	Condition	Value/remark	Version	Index
- 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		Rel-6	RBS-467
- RAB info	A19		Rel-7	RBS-468
- RAB identity		(high-speed AM DTCH for PS domain)		RBS-469
- CN domain identity		0000 0101B		RBS-470
- NAS Synchronization Indicator		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		
- Re-establishment timer		PS domain		RBS-471
- RB information to setup		Not Present		RBS-472
- RB identity		useT315		RBS-473
- PDCP info		25		RBS-474
- Support for lossless SRNS relocation				RBS-475
- Max PDCP SN window size		FALSE		RBS-476
- PDCP PDU header		Not present		RBS-477
- Header compression information		Absent		RBS-478
- CHOICE RLC info type		Not present		RBS-479
- CHOICE Uplink RLC mode		RLC info		RBS-480
- Transmission RLC discard		AM RLC		RBS-481
- CHOICE SDU discard mode		No Discard		RBS-482
- MAX_DAT		15		RBS-483
- Transmission window size		256		RBS-484
- Timer_RST		500		RBS-485
- Max_RST		4		RBS-486
- Polling info				RBS-487
- Timer_poll_prohibit		100		RBS-488
- Timer_poll		100		RBS-489
- Poll_PDU		Not Present		RBS-490

Information Element	Condition	Value/remark	Version	Index
- Poll_SDU		1		RBS-493
- Last transmission PDU poll		TRUE		RBS-494
- Last retransmission PDU poll		TRUE		RBS-495
- Poll_Windows		99		RBS-496
- Timer_poll_periodic		Not Present		RBS-497
- CHOICE Downlink RLC mode		AM RLC		RBS-498
Size	- CHOICE Downlink RLC PDU	Reference to clause 6 Parameter Set		RBS-499
	- 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-establishment	FALSE		RBS-507
info	- RB mapping info			RBS-508
	- Information for each multiplexing option	3 RBMuxOptions		RBS-509
	- RLC logical channel mapping indicator	Not Present		RBS-510
	- Number of uplink RLC logical channels	1		RBS-511
	- 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
type	- Number of downlink RLC logical channels	1		RBS-518
	- Downlink transport channel identity	DCH		RBS-519
	- DL DCH Transport channel identity	6		RBS-520
	- DL DSCH Transport channel identity	Not Present		RBS-521
	- DL HS-DSCH MAC-d flow identity	Not Present		RBS-522
	- Logical channel identity	Not Present		RBS-523
	- RLC logical channel mapping indicator	Not Present		RBS-524
	- Number of uplink RLC logical channels	1		RBS-525
	- Uplink transport channel type	E-DCH		RBS-526
	- Logical channel identity	7		RBS-527
info	- E-DCH MAC-d flow identity	2		RBS-528

Information Element	Condition	Value/remark	Version	Index
- 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
- Include in scheduling info		TRUE		RBS-537
- MAC logical channel priority		8		RBS-538
- Downlink RLC logical channel type				RBS-539
- Number of downlink RLC logical channels		1		RBS-540
- Downlink transport channel identity		HS-DSCH		RBS-541
- DL DCH Transport channel identity		Not Present		RBS-542
- DL DSCH Transport channel identity		Not Present		RBS-543
- DL HS-DSCH MAC-d flow identity		0		RBS-544
- Logical channel identity		Not Present		RBS-545
- RLC logical channel mapping indicator		Not Present		RBS-546
- Number of uplink RLC logical channels		1		RBS-547
- Uplink transport channel type		RACH		RBS-548
- UL Transport channel identity		Not Present		RBS-549
- Logical channel identity		7		RBS-550
- CHOICE RLC size list		Explicit list		RBS-551
- RLC size index		Reference to clause 6 Parameter Set		RBS-552
- MAC logical channel priority		8		RBS-553
- Downlink RLC logical channel type				RBS-554
- Number of downlink RLC logical channels		1		RBS-555
- Downlink transport channel identity		FACH		RBS-556
- DL DCH Transport channel identity		Not Present		RBS-557
- DL DSCH Transport channel identity		Not Present		RBS-558
- RAB information for setup	A13, A14, A15, A16, A19a		Rel-6	RBS-559
- RAB info		(high-speed AM DTCH for PS domain)	Rel-7	RBS-560
- RAB identity		0000 0101B 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
				RBS-563

Information Element	Condition	Value/remark	Version	Index
- NAS Synchronization Indicator		Not Present		RBS-564
- Re-establishment timer		useT315		RBS-565
- RB information to setup				RBS-566
- RB identity		25		RBS-567
- PDCP info				RBS-568
- Support for lossless SRNS relocation		FALSE		RBS-569
- Max PDCP SN window size		Not present		RBS-570
- PDCP PDU header		Absent		RBS-571
- Header compression information		Not present		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
- 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-establishment		FALSE		RBS-599
- RB mapping info				RBS-600
- Information for each multiplexing		1 RBMuxOption		RBS-601

Information Element	Condition	Value/remark	Version	Index
option		Not Present		RBS-602
- RLC logical channel mapping indicator		1		RBS-603
- Number of uplink RLC logical channels		E-DCH		RBS-604
- Uplink transport channel type		7		RBS-605
- Logical channel identity		2		RBS-606
- E-DCH MAC-d flow identity		Fixed size	Rel-8	RBS-607
- CHOICE RLC PDU size	MAC-I-FIXED	5		RBS-608
- DDI		1 RLC PDU size		RBS-609
- RLC PDU size list		336 bits		RBS-610
- RLC PDU size		MAC-I-FLEX		RBS-611
- CHOICE RLC PDU size		Flexible size	Rel-8	RBS-612
- Length indicator size		- 15 bit		RBS-613
- Minimum UL RLC PDU size		See clause 6.10		RBS-614
- Largest UL RLC PDU size		See clause 6.10		RBS-615
- Include in scheduling info		TRUE		RBS-616
- MAC logical channel priority		8		RBS-617
- Downlink RLC logical channel info		1		RBS-618
- Number of downlink RLC logical channels		HS-DSCH		RBS-619
- Downlink transport channel type		Not present		RBS-620
- DL DCH Transport channel identity		Not present		RBS-621
- DL DSCH Transport channel identity		0		RBS-622
- DL HS-DSCH MAC-d flow identity		Not Present		RBS-623
- RAB information for setup	A15	(second high-speed AM DTCH for PS domain) 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain	Rel-6	RBS-624
- RAB info		Not Present		RBS-625
- RAB identity		useT315		RBS-626
- CN domain identity		17		RBS-627
- NAS Synchronization Indicator		FALSE		RBS-628
- Re-establishment timer		Not present		RBS-629
- RB information to setup		Absent		RBS-630
- RB identity		Not present		RBS-631
- PDCP info		Not present		RBS-632
- Support for lossless SRNS relocation		Absent		RBS-633
- Max PDCP SN window size		Not present		RBS-634
- PDCP PDU header		Not present		RBS-635
- Header compression information		Not present		RBS-636

Information Element	Condition	Value/remark	Version	Index
- 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-establishment	FALSE		RBS-663
	- RB mapping info			RBS-664
	- Information for each multiplexing option	1 RBMuxOption		RBS-665
indicator	- RLC logical channel mapping	Not Present		RBS-666
	- Number of uplink RLC logical channels	1		RBS-667
	- 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	Fixed size	Rel-8	RBS-671
	- DDI	6		RBS-672
- RLC PDU size list		1 RLC PDU size		RBS-673

Information Element	Condition	Value/remark	Version	Index
- RLC PDU size		336 bits		RBS-674
- CHOICE RLC PDU size		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 info		1		RBS-681
- Number of downlink RLC logical channels		HS-DSCH		RBS-682
- Downlink transport channel type		Not present		RBS-683
- DL DCH Transport channel identity		Not present		RBS-684
- DL DSCH Transport channel identity		Not present		RBS-685
- DL HS-DSCH MAC-d flow identity		2		RBS-686
- Logical channel identity		Not Present		RBS-687
- RAB information for setup	A16	(Conversational UM DTCH for PS domain) 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain	Rel-6	RBS-688
- RAB info		Not Present		RBS-689
- RAB identity		useT314		RBS-690
- CN domain identity		27		RBS-691
- NAS Synchronization Indicator				RBS-692
- Re-establishment timer				RBS-693
- RB information to setup				RBS-694
- RB identity				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 information		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

Information Element	Condition	Value/remark	Version	Index
- 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	MAC-I-FIXED	Fixed size	Rel-8	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 identity		3		RBS-742
- Logical channel identity		Not Present		RBS-743
- RAB information for setup	A17, A17a A25a, A28		Rel-7 Rel-8	RBS-744 RBS-745

Information Element	Condition	Value/remark	Version	Index
- RAB info		(high-speed AM DTCH for PS domain)		RBS-746
- RAB identity		0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-747
- CN domain identity		PS domain		RBS-748
- NAS Synchronization Indicator		Not Present		RBS-749
- Re-establishment timer		useT315		RBS-750
- RB information to setup				RBS-751
- RB identity		25		RBS-752
- PDCP info				RBS-753
- Support for lossless SRNS relocation		FALSE		RBS-754
- Max PDCP SN window size		Not present		RBS-755
- PDCP PDU header		Absent		RBS-756
- Header compression information		Not present		RBS-757
- 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 Downlink RLC PDU Size is set to "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

Information Element	Condition	Value/remark	Version	Index
- Timer_EPC		Not Present		RBS-782
- Missing PDU indicator		TRUE		RBS-783
- Timer_STATUS_periodic		Not Present		RBS-784
- One sided RLC re-establishment		FALSE		RBS-785
- 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 option		1 RBMuxOption		RBS-789
- RLC logical channel mapping indicator		Not present		RBS-790
- Number of uplink RLC logical channels		1		RBS-791
- 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
- Downlink RLC logical channel info				RBS-797
- Number of downlink RLC logical channels		1		RBS-798
- Downlink transport channel type		HS-DSCH		RBS-799
- DL DCH Transport channel identity		Not present		RBS-800
- DL DSCH Transport channel identity		Not present		RBS-801
- CHOICE DL MAC header type		MAC-ehs		RBS-802
- DL HS-DSCH MAC-ehs		0		RBS-803
Queue Id		7		RBS-804
- RAB information for setup	A17b, A17c,A17d, A17e		Rel-7	RBS-805
- RAB info		(high-speed AM DTCH for PS domain)		RBS-806
- RAB identity		0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-807
- 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 relocation		FALSE		RBS-814
- Max PDCP SN window size		Not present		RBS-815
- PDCP PDU header		Absent		RBS-816

Information Element	Condition	Value/remark	Version	Index
- Header compression information		Not present		RBS-817
- 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-establishment	FALSE		RBS-845
	- Alternative E-bit interpretation	Not present		RBS-846
	- Use special value of HE field	TRUE		RBS-847
	- RB mapping info			RBS-848
	- Information for each multiplexing option	1 RBMuxOption		RBS-849
	- RLC logical channel mapping indicator	Not Present		RBS-850
	- Number of uplink RLC logical channels	1		RBS-851
	- Uplink transport channel type	E-DCH		RBS-852
	- Logical channel identity	7		RBS-853

Information Element	Condition	Value/remark	Version	Index
- E-DCH MAC-d flow identity		2		RBS-854
- CHOICE RLC PDU size	MAC-I-FIXED	Fixed size	Rel-8	RBS-855
- DDI		5		RBS-856
- RLC PDU size list		1 RLC PDU size		RBS-857
- RLC PDU size		336 bits		RBS-858
- CHOICE RLC PDU size	MAC-I-FLEX	Flexible size	Rel-8	RBS-859
- Length indicator size		- 15 bit		RBS-860
- Minimum UL RLC PDU size		See clause 6.10		RBS-861
- Largest UL RLC PDU size		See clause 6.10		RBS-862
- Include in scheduling info		TRUE		RBS-863
- MAC logical channel priority		8		RBS-864
- Downlink RLC logical channel info				RBS-865
- Number of downlink RLC logical channels		1		RBS-866
- Downlink transport channel type		HS-DSCH		RBS-867
- DL DCH Transport channel identity		Not present		RBS-868
- DL DSCH Transport channel identity		Not present		RBS-869
- CHOICE DL MAC header type		MAC-ehs		RBS-870
- DL HS-DSCH MAC-ehs		0		RBS-871
Queue Id				RBS-872
- Logical channel identity		7		
- RAB information for setup	A18		Rel-7	RBS-873
- RAB info		(high-speed UM DTCH for PS domain)		RBS-874
- RAB identity		0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-875
- CN domain identity		PS domain		RBS-876
- NAS Synchronization Indicator		Not Present		RBS-877
- Re-establishment timer		useT315		RBS-878
- RB information to setup				RBS-879
- RB identity		25		RBS-880
- PDCP info				RBS-881
- Support for lossless SRNS relocation		FALSE		RBS-882
- Max PDCP SN window size		Not present		RBS-883
- PDCP PDU header		Absent		RBS-884
- Header compression information		Not present		RBS-885
- CHOICE RLC info type		RLC info		RBS-886
- CHOICE Uplink RLC mode		UM RLC		RBS-887
- Transmission RLC discard		Not present		RBS-888
- CHOICE Downlink RLC mode		UM RLC		RBS-889

Information Element	Condition	Value/remark	Version	Index
- DL UM RLC LI size		7		RBS-890
- DL Reception Window Size		Not present		RBS-891
- One sided RLC re-establishment		FALSE		RBS-892
- Alternative E-bit interpretation		TRUE		RBS-893
- Use special value of HE field		Not present		RBS-894
- RB mapping info				RBS-895
- Information for each multiplexing option		1 RBMuxOption		RBS-896
- RLC logical channel mapping indicator		Not present		RBS-897
- Number of uplink RLC logical channels		1		RBS-898
- 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 info				RBS-904
- Number of downlink RLC logical channels		1		RBS-905
- Downlink transport channel type		HS-DSCH		RBS-906
- DL DCH Transport channel identity		Not present		RBS-907
- DL DSCH Transport channel identity		Not present		RBS-908
- CHOICE DL MAC header type		MAC-ehs		RBS-909
- DL HS-DSCH MAC-ehs		0		RBS-910
Queue Id		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 The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-914
- 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 relocation		FALSE		RBS-921
- Max PDCP SN window size		Not present		RBS-922
- PDCP PDU header		Absent		RBS-923
- Header compression information		Not present		RBS-924

Information Element	Condition	Value/remark	Version	Index
- 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-establishment	FALSE		RBS-951
	- RB mapping info			RBS-952
	- Information for each multiplexing option	1 RBMuxOption		RBS-953
indicator	- RLC logical channel mapping	Not Present		RBS-954
	- Number of uplink RLC logical channels	1		RBS-955
	- Uplink transport channel type	E-DCH		RBS-956
	- Logical channel identity	7		RBS-957
	- E-DCH MAC-d flow identity	2		RBS-958
	- CHOICE RLC PDU size	Fixed size	Rel-8	RBS-959
	- DDI	5		RBS-960
- RLC PDU size list		1 RLC PDU size		RBS-961

Information Element	Condition	Value/remark	Version	Index
- RLC PDU size		336 bits		RBS-962
- CHOICE RLC PDU size	MAC-I-FLEX	Flexible size	Rel-8	RBS-963
- Length indicator size		- 15 bit		RBS-964
- Minimum UL RLC PDU size		See clause 6.10		RBS-965
- Largest UL RLC PDU size		See clause 6.10		RBS-966
- Include in scheduling info		TRUE		RBS-967
- MAC logical channel priority		8		RBS-968
- Downlink RLC logical channel info				RBS-969
- Number of downlink RLC logical channels		1		RBS-970
- Downlink transport channel type		HS-DSCH		RBS-971
- DL DCH Transport channel identity		Not present		RBS-972
- DL DSCH Transport channel identity		Not present		RBS-973
- CHOICE <i>DL MAC header type</i>		MAC-hs		RBS-974
- DL HS-DSCH MAC-d flow identity		0		RBS-975
- Logical channel identity		Not Present		RBS-976
- RAB information for setup	A21		Rel-7	RBS-977
- RAB info		(Conversational UM DTCH for PS domain) 0000 0110B		RBS-978
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-979
- CN domain identity		PS domain		RBS-980
- NAS Synchronization Indicator		Not Present		RBS-981
- Re-establishment timer		useT314		RBS-982
- RB information to setup				RBS-983
- RB identity		27		RBS-984
- PDCP info				RBS-985
- Support for lossless SRNS relocation		FALSE		RBS-986
- Max PDCP SN window size		Not present		RBS-987
- PDCP PDU header		Absent		RBS-988
- Header compression information		Not present		RBS-989
- CHOICE RLC info type		RLC info		RBS-990
- CHOICE Uplink RLC mode		UM RLC		RBS-991
- Transmission RLC discard		Not present		RBS-992
- CHOICE Downlink RLC mode		UM RLC		RBS-993
- DL UM RLC LI size		7		RBS-994
- DL Reception Window Size		32		RBS-995
- One sided RLC re-establishment		FALSE		RBS-996

Information Element	Condition	Value/remark	Version	Index
- Alternative E-bit interpretation		Not present		RBS-997
- RB mapping info				RBS-998
- Information for each multiplexing option		1 RBMuxOption		RBS-999
- RLC logical channel mapping indicator		Not Present		RBS-1000
- Number of uplink RLC logical channels		1		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	MAC-I-FIXED	Fixed size	Rel-8	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

Information Element	Condition	Value/remark	Version	Index
- RAB information for setup	A22	(second high-speed UM DTCH for PS domain) 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain	Rel-7	RBS-1034
- RAB info				RBS-1035
- RAB identity				RBS-1036
- CN domain identity				RBS-1037
- NAS Synchronization Indicator		Not Present		RBS-1038
- Re-establishment timer		useT315		RBS-1039
- RB information to setup				RBS-1040
- RB identity		27		RBS-1041
- PDCP info				RBS-1042
- Support for lossless SRNS relocation		FALSE		RBS-1043
- Max PDCP SN window size		Not present		RBS-1044
- PDCP PDU header		Absent		RBS-1045
- Header compression information		Not present		RBS-1046
- CHOICE RLC info type		RLC info		RBS-1047
- CHOICE Uplink RLC mode		UM RLC		RBS-1048
- Transmission RLC discard		Not present		RBS-1049
- CHOICE Downlink RLC mode		UM RLC		RBS-1050
- DL UM RLC LI size		15		RBS-1051
- DL Reception Window Size		Not present		RBS-1052
- One sided RLC re-establishment		FALSE		RBS-1053
- Alternative E-bit interpretation		TRUE		RBS-1054
- Use special value of HE field		Not present		RBS-1055
- RB mapping info				RBS-1056
- Information for each multiplexing option		1 RBMuxOption		RBS-1057
- RLC logical channel mapping indicator		Not present		RBS-1058
- Number of uplink RLC logical channels		1		RBS-1059
- Uplink transport channel type		E-DCH		RBS-1060
- Logical channel identity		9		RBS-1061
- E-DCH MAC-d flow identity		4		RBS-1062
- CHOICE RLC PDU size	MAC-I-FIXED	Fixed size	Rel-8	RBS-1063
- DDI		7		RBS-1064
- RLC PDU size list		See clause 6.10		RBS-1065
- CHOICE RLC PDU size	MAC-I-FLEX	Flexible size	Rel-8	RBS-1066
- Length indicator size		- 15 bit		RBS-1067
- Minimum UL RLC PDU size		See clause 6.10		RBS-1068
- Largest UL RLC PDU size		See clause 6.10		RBS-1069

Information Element	Condition	Value/remark	Version	Index
- Include in scheduling info		TRUE		RBS-1070
- MAC logical channel priority		8		RBS-1071
- Downlink RLC logical channel info		1		RBS-1072
- Number of downlink RLC logical channels		HS-DSCH		RBS-1073
- Downlink transport channel type		Not present		RBS-1074
- DL DCH Transport channel identity		Not present		RBS-1075
- DL DSCH Transport channel identity		MAC-ehs		RBS-1076
- CHOICE <i>DL MAC header type</i>		3		RBS-1077
- DL HS-DSCH MAC-ehs		9		RBS-1078
Queue Id				RBS-1079
- Logical channel identity				
- RAB information for setup	A22 , A25, A25b	(high-speed AM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 25 FALSE Not present Absent Not present RLC info AM RLC No Discard 15 128 500 4 100 100 Not Present	Rel-7 Rel-8	RBS-1080 RBS-1081 RBS-1082 RBS-1083 RBS-1084 RBS-1085 RBS-1086 RBS-1087 RBS-1088 RBS-1089 RBS-1090 RBS-1091 RBS-1092 RBS-1093 RBS-1094 RBS-1095 RBS-1096 RBS-1097 RBS-1098 RBS-1099 RBS-1100 RBS-1101 RBS-1102 RBS-1103 RBS-1104 RBS-1105

Information Element	Condition	Value/remark	Version	Index	
- Poll_SDU		1		RBS-1106	
- Last transmission PDU poll		TRUE		RBS-1107	
- Last retransmission PDU poll		TRUE		RBS-1108	
- Poll_Windows		99		RBS-1109	
- Timer_poll_periodic		Not Present		RBS-1110	
- CHOICE Downlink RLC mode		AM RLC		RBS-1111	
- CHOICE Downlink RLC PDU		Reference to clause 6 Parameter Set		RBS-1112	
Size	- 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	
option	- 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	RBS-1131	
	- DDI		5	RBS-1132	
info	- 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		Not present		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

Information Element	Condition	Value/remark	Version	Index
- 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 <i>DL MAC header type</i>		MAC-ehs		RBS-1146
- DL HS-DSCH MAC-ehs		0		RBS-1147
Queue Id		7		RBS-1148
- Logical channel identity				
- RAB information for setup	A23	(high-speed UM DTCH for CS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. CS domain	Rel-7 Rel-8	RBS-1149
- RAB info		0000 0101B		RBS-1150
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. CS domain		RBS-1151
- CN domain identity				RBS-1152
- NAS Synchronization Indicator		'1010' if WB-AMR is tested, otherwise '0110' useT314		RBS-1153
- Re-establishment timer				RBS-1154
- CS-HSPA information				RBS-1155
- UL AMR rate		Not Present		RBS-1156
- Max CS delay		60		RBS-1157
- RB information to setup				RBS-1158
- RB identity		26		RBS-1159
- PDCP info				RBS-1160
- Support for lossless SRNS relocation		FALSE		RBS-1161
- Max PDCP SN window size		Not present		RBS-1162
- PDCP PDU header		present		RBS-1163
- Header compression information		Not present		RBS-1164
- CHOICE RLC info type		RLC info		RBS-1165
- CHOICE Uplink RLC mode		UM RLC		RBS-1166
- Transmission RLC discard				RBS-1167
- CHOICE SDU discard mode		Timer based no explicit		RBS-1168
- Timer_discard		50		RBS-1169
- CHOICE Downlink RLC mode		UM RLC		RBS-1170
- DL UM RLC LI size		7		RBS-1171
- DL Reception Window Size		Not present		RBS-1172
- One sided RLC re-establishment		FALSE		RBS-1173
- Alternative E-bit interpretation		TRUE		RBS-1174
- Use special value of HE field		Not present		RBS-1175
- RB mapping info				RBS-1176
- Information for each multiplexing		1 RBMuxOption		RBS-1177

Information Element	Condition	Value/remark	Version	Index
option		Not present		RBS-1178
- RLC logical channel mapping indicator		1		RBS-1179
- Number of uplink RLC logical channels		E-DCH		RBS-1180
- Uplink transport channel type		7		RBS-1181
- Logical channel identity		2		RBS-1182
- E-DCH MAC-d flow identity		MAC-I-FIXED	Rel-8	RBS-1183
- CHOICE RLC PDU size		Fixed size		RBS-1184
- DDI		6		RBS-1185
- RLC PDU size list		Reference to clause 6.10 Parameter Set		RBS-1186
- CHOICE RLC PDU size	MAC-I-FLEX	Flexible size	Rel-8	RBS-1187
- Length indicator size		Not present		RBS-1188
- Minimum UL RLC PDU size		See clause 6.10		RBS-1189
- Largest UL RLC PDU size		See clause 6.10		RBS-1190
- Include in scheduling info		TRUE		RBS-1191
- MAC logical channel priority		8		RBS-1192
- Downlink RLC logical channel		1		RBS-1193
info		HS-DSCH		RBS-1194
- Number of downlink RLC logical channels		Not present		RBS-1195
- Downlink transport channel		Not present		RBS-1196
type		MAC-ehs		RBS-1197
- DL DCH Transport channel identity		0		RBS-1198
- DL DSCH Transport channel identity		7		RBS-1199
- CHOICE DL MAC header type				
- DL HS-DSCH MAC-ehs				
Queue Id				
- Logical channel identity				
- RAB information for setup	A24	(high-speed AM DTCH for PS domain)		RBS-1200
- RAB info		0000 0101B		RBS-1201
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-1202
- CN domain identity		PS domain		RBS-1203
- NAS Synchronization Indicator		Not Present		RBS-1204
- Re-establishment timer		useT315		RBS-1205
- RB information to setup				RBS-1206
- RB identity		25		RBS-1207
- PDCP info				RBS-1208
- 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 information		Not present		RBS-1212

Information Element	Condition	Value/remark	Version	Index
- 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-establishment	FALSE		RBS-1239
	- Alternative E-bit interpretation	Not present		RBS-1240
	- Use special value of HE field	TRUE		RBS-1241
option	- RB mapping info			RBS-1242
	- Information for each multiplexing option	1 RBMuxOption		RBS-1243
	- RLC logical channel mapping indicator	Not present		RBS-1244
	- Number of uplink RLC logical channels	1		RBS-1245
	- 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

Information Element	Condition	Value/remark	Version	Index
- RLC size index		Reference to clause 6 Parameter Set		RBS-1250
- MAC logical channel priority		8		RBS-1251
- Downlink RLC logical channel info		1		RBS-1252
- Number of downlink RLC logical channels		HS-DSCH		RBS-1253
- Downlink transport channel type		Not present		RBS-1254
- DL DCH Transport channel identity		Not present		RBS-1255
- DL DSCH Transport channel identity		MAC-ehs		RBS-1256
- CHOICE <i>DL MAC header type</i>		2		RBS-1257
- DL HS-DSCH MAC-ehs		Not Present		RBS-1258
Queue Id				RBS-1259
- Logical channel identity				
- RAB information for setup	A26	(first UM DTCH for PS domain)	Rel-8	RBS-1260
- RAB info		0000 0101B		RBS-1261
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-1262
- CN domain identity		PS domain		RBS-1263
- NAS Synchronization Indicator		Not Present		RBS-1264
- Re-establishment timer		useT315		RBS-1265
- RB information to setup				RBS-1266
- RB identity	26			RBS-1267
- PDCP info				RBS-1268
- Support for lossless SRNS relocation		FALSE		RBS-1269
- Max PDCP SN window size		Not present		RBS-1270
- PDCP PDU header		Absent		RBS-1271
- Header compression information		Not present		RBS-1272
- CHOICE RLC info type		RLC info		RBS-1273
- CHOICE Uplink RLC mode		UM RLC		RBS-1274
- Transmission RLC discard		Not present		RBS-1275
- CHOICE Downlink RLC mode		UM RLC		RBS-1276
- DL UM RLC LI size	7			RBS-1277
- DL Reception Window Size		Not present		RBS-1278
- Alternative E-bit interpretation		TRUE		RBS-1279
- One sided RLC re-establishment		FALSE		RBS-1280
- RB mapping info				RBS-1281
- Information for each multiplexing option		1 RBMuxOption		RBS-1282
- RLC logical channel mapping indicator		Not Present		RBS-1283
- Number of uplink RLC logical channels	1			RBS-1284

Information Element	Condition	Value/remark	Version	Index
- Uplink transport channel type		E-DCH		RBS-1285
- Logical channel identity		7		RBS-1286
- E-DCH MAC-d flow identity		2		RBS-1287
- CHOICE RLC PDU size		Flexible size		RBS-1288
- Length indicator size		Not present		RBS-1289
- Minimum UL RLC PDU size		See clause 6.10		RBS-1290
- Largest UL RLC PDU size		See clause 6.10		RBS-1291
- Include in scheduling info		TRUE		RBS-1292
- MAC logical channel priority		8		RBS-1293
- Downlink RLC logical channel info				RBS-1294
- Number of downlink RLC logical channels		1		RBS-1295
- Downlink transport channel type		HS-DSCH		RBS-1296
- DL DCH Transport channel identity		Not present		RBS-1297
- DL DSCH Transport channel identity		Not present		RBS-1298
- CHOICE DL MAC header type		MAC-ehs		RBS-1299
- DL HS-DSCH MAC-ehs		2		RBS-1300
Queue Id		7		RBS-1301
- Logical channel identity				
- RAB information for setup	A26		Rel-8	RBS-1302
- RAB info		(second high-speed UM DTCH for PS domain) 0000 0110B		RBS-1303
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain		RBS-1304
- CN domain identity				RBS-1305
- NAS Synchronization Indicator		Not Present		RBS-1306
- Re-establishment timer		useT315		RBS-1307
- RB information to setup				RBS-1308
- RB identity	27			RBS-1309
- PDCP info				RBS-1310
- 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 information		Not present		RBS-1314
- 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

Information Element	Condition	Value/remark	Version	Index
- 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 DL MAC header type		MAC-ehs		RBS-1341
- DL HS-DSCH MAC-ehs		3		RBS-1342
Queue Id				RBS-1343
- Logical channel identity		8		RBS-1344
- RAB information for setup	A26		Rel-8	RBS-1344
- RAB info		(third high-speed UM DTCH for PS domain) 0000 0111B		RBS-1345
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain		RBS-1346
- CN domain identity				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

Information Element	Condition	Value/remark	Version	Index
- Header compression information		Not present		RBS-1356
- CHOICE RLC info type		RLC info		RBS-1357
- CHOICE Uplink RLC mode		UM RLC		RBS-1358
- Transmission RLC discard		Not present		RBS-1359
- CHOICE Downlink RLC mode		UM RLC		RBS-1360
- DL UM RLC LI size		7		RBS-1361
- DL Reception Window Size		Not present		RBS-1362
- Alternative E-bit interpretation		TRUE		RBS-1363
- One sided RLC re-establishment		FALSE		RBS-1364
- RB mapping info				RBS-1365
- Information for each multiplexing option		1 RBMuxOption		RBS-1366
- RLC logical channel mapping indicator		Not Present		RBS-1367
- Number of uplink RLC logical channels		1		RBS-1368
- Uplink transport channel type		E-DCH		RBS-1369
- Logical channel identity		9		RBS-1370
- E-DCH MAC-d flow identity		4		RBS-1371
- CHOICE RLC PDU size		Flexible size		RBS-1372
- Length indicator size		Not present		RBS-1373
- Minimum UL RLC PDU size		See clause 6.10		RBS-1374
- Largest UL RLC PDU size		See clause 6.10		RBS-1375
- Include in scheduling info		TRUE		RBS-1376
- MAC logical channel priority		8		RBS-1377
- Downlink RLC logical channel info				RBS-1378
- Number of downlink RLC logical channels		1		RBS-1379
- Downlink transport channel type		HS-DSCH		RBS-1380
- DL DCH Transport channel identity		Not present		RBS-1381
- DL DSCH Transport channel identity		Not present		RBS-1382
- CHOICE DL MAC header type		MAC-ehs		RBS-1383
- DL HS-DSCH MAC-ehs		4		RBS-1384
Queue Id		9		RBS-1385
- Logical channel identity				
- RAB information for setup	A27, A27a	(high-speed UM DTCH for PS domain)	Rel-8	RBS-1386
- RAB info		0000 0101B		RBS-1387
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS-1388
- CN domain identity		PS domain		RBS-1389
- NAS Synchronization Indicator		Not Present		RBS-1390

Information Element	Condition	Value/remark	Version	Index
- Re-establishment timer		useT315		RBS-1391
- RB information to setup				RBS-1392
- RB identity		25		RBS-1393
- PDCP info				RBS-1394
- Support for lossless SRNS relocation		FALSE		RBS-1395
- Max PDCP SN window size		Not present		RBS-1396
- PDCP PDU header		Absent		RBS-1397
- Header compression information		Not present		RBS-1398
- CHOICE RLC info type		RLC info		RBS-1399
- CHOICE Uplink RLC mode		UM RLC		RBS-1400
- Transmission RLC discard		Not Present		RBS-1401
- CHOICE Downlink RLC mode		UM RLC		RBS-1402
- DL UM RLC LI size		15		RBS-1403
- DL Reception Window Size		Not present		RBS-1404
- One sided RLC re-establishment		FALSE		RBS-1405
- Alternative E-bit interpretation		TRUE		RBS-1406
- Use special value of HE field		Not present		RBS-1407
- RB mapping info				RBS-1408
- Information for each multiplexing option		1 RBMuxOption		RBS-1409
- 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 DL MAC header type		MAC-ehs		RBS-1426
- DL HS-DSCH MAC-ehs		0		RBS-1427

Information Element	Condition	Value/remark	Version	Index
Queue Id - Logical channel identity		7		RBS-1428
- RAB information for setup - RAB info - RAB identity	A29	(high-speed AM DTCH for PS domain) 0000 0101B	Rel-8	RBS-1429 RBS-1430 RBS-1431
The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - 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 - In-sequence delivery - Receiving window size		PS domain Not Present useT315 25 FALSE Not present Absent Not present RLC info AM RLC No Discard 15 128 500 4 100 100 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set TRUE 768		RBS-1432 RBS-1433 RBS-1434 RBS-1435 RBS-1436 RBS-1437 RBS-1438 RBS-1439 RBS-1440 RBS-1441 RBS-1442 RBS-1443 RBS-1444 RBS-1445 RBS-1446 RBS-1447 RBS-1448 RBS-1449 RBS-1450 RBS-1451 RBS-1452 RBS-1453 RBS-1454 RBS-1455 RBS-1456 RBS-1457 RBS-1458 RBS-1459 RBS-1460 RBS-1461 RBS-1462 RBS-1463

Information Element	Condition	Value/remark	Version	Index
- Downlink RLC status info			RBS-1464	
- Timer_status_prohibit		100	RBS-1465	
- Timer_EPC		Not Present	RBS-1466	
- Missing PDU indicator		TRUE	RBS-1467	
- Timer_STATUS_periodic		Not Present	RBS-1468	
- One sided RLC re-establishment		FALSE	RBS-1469	
- Alternative E-bit interpretation		Not present	RBS-1470	
- Use special value of HE field		TRUE	RBS-1471	
- RB mapping info			RBS-1472	
- Information for each multiplexing option		1 RBMuxOption	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			RBS-1485	
- Number of downlink RLC logical channels		1	RBS-1486	
- Downlink transport channel type		HS-DSCH	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		Rel-8	RBS-1493
- RAB info		(high-speed AM DTCH for PS domain)		RBS-1494
- RAB identity		0000 0101B		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

Information Element	Condition	Value/remark	Version	Index
- 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	
- 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	
- 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-establishment	FALSE		RBS-1533	
- 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	

Information Element	Condition	Value/remark	Version	Index
option		Not present		RBS-1538
- RLC logical channel mapping indicator		1		RBS-1539
- Number of uplink RLC logical channels		E-DCH		RBS-1540
- Uplink transport channel type		7		RBS-1541
- Logical channel identity		2		RBS-1542
- E-DCH MAC-d flow identity		Flexible size		RBS-1543
- CHOICE RLC PDU size		15 bit		RBS-1544
- Length indicator size		See clause 6.10		RBS-1545
- Minimum UL RLC PDU size		See clause 6.10		RBS-1546
- Largest UL RLC PDU size		TRUE		RBS-1547
- Include in scheduling info		8		RBS-1548
- MAC logical channel priority				RBS-1549
- Downlink RLC logical channel info		1		RBS-1550
- Number of downlink RLC logical channels		HS-DSCH		RBS-1551
- Downlink transport channel type		Not present		RBS-1552
- DL DCH Transport channel identity		Not present		RBS-1553
- DL DSCH Transport channel identity		MAC-ehs		RBS-1554
- CHOICE DL MAC header type		2		RBS-1555
- DL HS-DSCH MAC-ehs				RBS-1556
Queue Id		7		
- Logical channel identity				

Information Element	Condition	Value/remark	Version	Index
- RAB information for setup	A31, A32	(high-speed AM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain	Rel-9	RBS-1557 RBS-1558 RBS-1559
- RAB info				
- RAB identity				
- CN domain identity				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 relocation		FALSE		RBS-1566
- Max PDCP SN window size		Not present		RBS-1567
- PDCP PDU header		Absent		RBS-1568
- 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		Reference to clause 6 Parameter Set		RBS-1588
Size				
- 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

Information Element	Condition	Value/remark	Version	Index
- 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		Flexible size		RBS-1607
- Length indicator size		15 bit		RBS-1608
- Minimum UL RLC PDU size		See clause 6.10		RBS-1609
- Largest UL RLC PDU size		See clause 6.10		RBS-1610
- 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		7		RBS-1620
- Logical channel identity				
RB information to reconfigure list	A1, A2, A3, A4, A5, A6, A7, A8 A9, A10	Not Present		RBS-1621
	A12, A13, A14, A15, A16		Rel-5	RBS-1622
	, A17, A17a, A18, A19, A19a, A20, A21, A22, A23		Rel-6	RBS-1623
	, A25, A25a, A25b, A26, A27, A27a, A28, A29, A31, A32		Rel-7	RBS-1624
			Rel-7	RBS-1625
			Rel-8	RBS-1626
			Rel-8	RBS-1627
			Rel-9	RBS-1627

Information Element	Condition	Value/remark	Version	Index
RB information to be affected	A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 A12 , A17, A17a, A18, A19, A20, A21, A24, A23 , A25a, A28, A29	Not Present Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8		RBS-1628 RBS-1629 RBS-1630 RBS-1631 RBS-1632 RBS-1633
RB information to be affected	A13, A15 A19a, A25b , A17d, A17e , A26 , A31, A32		Rel-6 Rel-7 Rel-8 Rel-9	RBS-1634 RBS-1635 RBS-1636 RBS-1637
- RB identity		1 (UM DCCH for RRC)		RBS-1638
- RB mapping info				RBS-1639
- Information for each multiplexing option		1 RBMuxOption		RBS-1640
- RLC logical channel mapping indicator		Not Present		RBS-1641
- Number of uplink RLC logical channels		1		RBS-1642
- Uplink transport channel type		E-DCH		RBS-1643
- Logical channel identity		1		RBS-1644
- E-DCH MAC-d flow identity		1		RBS-1645
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS-1646
- DDI		1		RBS-1647
- RLC PDU size list		1 RLC PDU size		RBS-1648
- RLC PDU size		144 bits		RBS-1649
- Include in scheduling info		FALSE		RBS-1650
- MAC logical channel priority		1		RBS-1651
- Downlink RLC logical channel info				RBS-1652
- Number of RLC logical channels		1		RBS-1653
- Downlink transport channel type		DCH		RBS-1654
- DL DCH Transport channel identity		10		RBS-1655
- DL DSCH Transport channel identity		Not Present		RBS-1656
- Logical channel identity		1		RBS-1657
- RB identity		2 (AM DCCH for RRC)		RBS-1658
- RB mapping info				RBS-1659
- Information for each multiplexing option		1 RBMuxOption		RBS-1660
- RLC logical channel mapping indicator		Not Present		RBS-1661
- Number of uplink RLC logical channels		1		RBS-1662
- Uplink transport channel type		E-DCH		RBS-1663

Information Element	Condition	Value/remark	Version	Index
- Logical channel identity	2			RBS-1664
- E-DCH MAC-d flow identity	1			RBS-1665
- CHOICE RLC PDU size	Fixed size		Rel-8	RBS-1666
- DDI	2			RBS-1667
- RLC PDU size list	1 RLC PDU size			RBS-1668
- RLC PDU size	144 bits			RBS-1669
- Include in scheduling info	FALSE			RBS-1670
- MAC logical channel priority	2			RBS-1671
- Downlink RLC logical channel info				RBS-1672
- Number of RLC logical channels	1			RBS-1673
- Downlink transport channel type	DCH			RBS-1674
- DL DCH Transport channel identity	10			RBS-1675
- DL DSCH Transport channel identity	Not Present			RBS-1676
- Logical channel identity	2			RBS-1677
- RB identity	3 (AM DCCH for NAS High Priority)			RBS-1678
- RB mapping info				RBS-1679
- Information for each multiplexing option	1 RBMuxOption			RBS-1680
- RLC logical channel mapping indicator	Not Present			RBS-1681
- Number of uplink RLC logical channels	1			RBS-1682
- Uplink transport channel type	E-DCH			RBS-1683
- Logical channel identity	3			RBS-1684
- E-DCH MAC-d flow identity	1			RBS-1685
- CHOICE RLC PDU size	Fixed size		Rel-8	RBS-1686
- DDI	3			RBS-1687
- RLC PDU size list	1 RLC PDU size			RBS-1688
- RLC PDU size	144 bits			RBS-1689
- Include in scheduling info	FALSE			RBS-1690
- MAC logical channel priority	3			RBS-1691
- Downlink RLC logical channel info				RBS-1692
- Number of RLC logical channels	1			RBS-1693
- Downlink transport channel type	DCH			RBS-1694
- DL DCH Transport channel identity	10			RBS-1695
- DL DSCH Transport channel identity	Not Present			RBS-1696
- Logical channel identity	3			RBS-1697
- RB identity	4 (AM DCCH for NAS Low Priority)			RBS-1698
- RB mapping info				RBS-1699

Information Element	Condition	Value/remark	Version	Index
- Information for each multiplexing option		1 RBMuxOption		RBS-1700
- RLC logical channel mapping indicator		Not Present		RBS-1701
- Number of uplink RLC logical channels		1		RBS-1702
- Uplink transport channel type		E-DCH		RBS-1703
- Logical channel identity		4		RBS-1704
- E-DCH MAC-d flow identity		1		RBS-1705
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS-1706
- DDI		4		RBS-1707
- RLC PDU size list		1 RLC PDU size		RBS-1708
- RLC PDU size		144 bits		RBS-1709
- Include in scheduling info		FALSE		RBS-1710
- MAC logical channel priority		4		RBS-1711
- Downlink RLC logical channel info				RBS-1712
- Number of RLC logical channels		1		RBS-1713
- Downlink transport channel type		DCH		RBS-1714
- DL DCH Transport channel identity		10		RBS-1715
- DL DSCH Transport channel identity		Not Present		RBS-1716
- Logical channel identity		4		RBS-1717
RB information to be affected	A14, A16		Rel-6	RBS-1718
- RB identity		1 (UM DCCH for RRC)		RBS-1719
- RB mapping info				RBS-1720
- Information for each multiplexing option		1 RBMuxOption		RBS-1721
- RLC logical channel mapping indicator		Not Present		RBS-1722
- Number of uplink RLC logical channels		1		RBS-1723
- Uplink transport channel type		E-DCH		RBS-1724
- Logical channel identity		1		RBS-1725
- E-DCH MAC-d flow identity		1		RBS-1726
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS-1727
- DDI		1		RBS-1728
- RLC PDU size list		1 RLC PDU size		RBS-1729
- RLC PDU size		144 bits		RBS-1730
- Include in scheduling info		FALSE		RBS-1731
- MAC logical channel priority		1		RBS-1732
- Downlink RLC logical channel info				RBS-1733
- Number of RLC logical channels		1		RBS-1734
- Downlink transport channel type		HS-DSCH		RBS-1735

Information Element	Condition	Value/remark	Version	Index
- DL DCH Transport channel identity		Not present		RBS-1736
- DL DSCH Transport channel identity		Not present		RBS-1737
- DL HS-DSCH MAC-d flow identity		1		RBS-1738
- Logical channel identity		1		RBS-1739
- RB identity		2 (AM DCCH for RRC)		RBS-1740
- RB mapping info				RBS-1741
- Information for each multiplexing option		1 RBMuxOption		RBS-1742
- RLC logical channel mapping indicator		Not Present		RBS-1743
- Number of uplink RLC logical channels		1		RBS-1744
- Uplink transport channel type		E-DCH		RBS-1745
- Logical channel identity		2		RBS-1746
- E-DCH MAC-d flow identity		1		RBS-1747
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS-1748
- DDI		2		RBS-1749
- RLC PDU size list		1 RLC PDU size		RBS-1750
- RLC PDU size		144 bits		RBS-1751
- Include in scheduling info		FALSE		RBS-1752
- MAC logical channel priority		2		RBS-1753
- Downlink RLC logical channel info				RBS-1754
- Number of RLC logical channels		1		RBS-1755
- Downlink transport channel type		HS-DSCH		RBS-1756
- DL DCH Transport channel identity		Not Present		RBS-1757
- DL DSCH Transport channel identity		Not Present		RBS-1758
- DL HS-DSCH MAC-d flow identity		1		RBS-1759
- Logical channel identity		2		RBS-1760
- RB identity		3 (AM DCCH for NAS High Priority)		RBS-1761
- RB mapping info				RBS-1762
- Information for each multiplexing option		1 RBMuxOption		RBS-1763
- RLC logical channel mapping indicator		Not Present		RBS-1764
- Number of uplink RLC logical channels		1		RBS-1765
- Uplink transport channel type		E-DCH		RBS-1766
- Logical channel identity		3		RBS-1767
- E-DCH MAC-d flow identity		1		RBS-1768
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS-1769
- DDI		3		RBS-1770
- RLC PDU size list		1 RLC PDU size		RBS-1771

Information Element	Condition	Value/remark	Version	Index
- RLC PDU size		144 bits		RBS-1772
- Include in scheduling info		FALSE		RBS-1773
- MAC logical channel priority		3		RBS-1774
- Downlink RLC logical channel info				RBS-1775
- Number of RLC logical channels		1		RBS-1776
- Downlink transport channel type		HS-DSCH		RBS-1777
- DL DCH Transport channel identity		Not Present		RBS-1778
- DL DSCH Transport channel identity		Not Present		RBS-1779
- DL HS-DSCH MAC-d flow identity		1		RBS-1780
- Logical channel identity		3		RBS-1781
- RB identity		4 (AM DCCH for NAS Low Priority)		RBS-1782
- RB mapping info				RBS-1783
- Information for each multiplexing option		1 RBMuxOption		RBS-1784
- RLC logical channel mapping indicator		Not Present		RBS-1785
- Number of uplink RLC logical channels		1		RBS-1786
- Uplink transport channel type		E-DCH		RBS-1787
- Logical channel identity		4		RBS-1788
- E-DCH MAC-d flow identity		1		RBS-1789
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS-1790
- DDI		4		RBS-1791
- RLC PDU size list		1 RLC PDU size		RBS-1792
- RLC PDU size		144 bits		RBS-1793
- Include in scheduling info		FALSE		RBS-1794
- MAC logical channel priority		4		RBS-1795
- Downlink RLC logical channel info				RBS-1796
- Number of RLC logical channels		1		RBS-1797
- Downlink transport channel type		HS-DSCH		RBS-1798
- DL DCH Transport channel identity		Not Present		RBS-1799
- DL DSCH Transport channel identity		Not Present		RBS-1800
- DL HS-DSCH MAC-d flow identity		1		RBS-1801
- Logical channel identity		4		RBS-1802
RB information to be affected	A17b, A17c, A22		Rel-7	RBS-1803
	A25		Rel-8	RBS-1804
- RB identity		1 (UM DCCH for RRC)		RBS-1805
- RB mapping info				RBS-1806
- Information for each multiplexing option		1 RBMuxOption		RBS-1807

Information Element	Condition	Value/remark	Version	Index
- RLC logical channel mapping indicator		Not Present		RBS-1808
- Number of uplink RLC logical channels		1		RBS-1809
- Uplink transport channel type		E-DCH		RBS-1810
- Logical channel identity		1		RBS-1811
- E-DCH MAC-d flow identity		1		RBS-1812
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS-1813
- DDI		1		RBS-1814
- RLC PDU size list		1 RLC PDU size		RBS-1815
- RLC PDU size		144 bits		RBS-1816
- Include in scheduling info		FALSE		RBS-1817
- MAC logical channel priority		1		RBS-1818
- Downlink RLC logical channel info				RBS-1819
- Number of RLC logical channels		1		RBS-1820
- Downlink transport channel type		HS-DSCH		RBS-1821
- DL DCH Transport channel identity		Not present		RBS-1822
- DL DSCH Transport channel identity		Not present		RBS-1823
- CHOICE DL MAC header type		MAC-ehs		RBS-1824
- DL HS-DSCH MAC-ehs		1		RBS-1825
Queue Id				RBS-1826
- Logical channel identity		1		RBS-1827
- RB identity		2 (AM DCCH for RRC)		RBS-1828
- RB mapping info				RBS-1829
- Information for each multiplexing option		1 RBMuxOption		RBS-1830
- RLC logical channel mapping indicator		Not Present		RBS-1831
- Number of uplink RLC logical channels		1		RBS-1832
- Uplink transport channel type		E-DCH		RBS-1833
- Logical channel identity		2		RBS-1834
- E-DCH MAC-d flow identity		1		RBS-1835
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS-1836
- DDI		2		RBS-1837
- RLC PDU size list		1 RLC PDU size		RBS-1838
- RLC PDU size		144 bits		RBS-1839
- Include in scheduling info		FALSE		RBS-1840
- MAC logical channel priority		2		RBS-1841
- Downlink RLC logical channel info				RBS-1842
- Number of RLC logical channels		1		RBS-1843
- Downlink transport channel type		HS-DSCH		

Information Element	Condition	Value/remark	Version	Index
- DL DCH Transport channel identity		Not Present		RBS-1844
- DL DSCH Transport channel identity		Not Present		RBS-1845
- CHOICE <i>DL MAC header type</i>		MAC-ehs		RBS-1846
- DL HS-DSCH MAC-ehs		1		RBS-1847
Queue Id		2		RBS-1848
- Logical channel identity				
- RB identity		3 (AM DCCH for NAS High Priority)		RBS-1849
- RB mapping info				RBS-1850
- Information for each multiplexing option		1 RBMuxOption		RBS-1851
- RLC logical channel mapping indicator		Not Present		RBS-1852
- Number of uplink RLC logical channels		1		RBS-1853
- Uplink transport channel type		E-DCH		RBS-1854
- Logical channel identity		3		RBS-1855
- E-DCH MAC-d flow identity		1		RBS-1856
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS-1857
- DDI		3		RBS-1858
- RLC PDU size list		1 RLC PDU size		RBS-1859
- RLC PDU size		144 bits		RBS-1860
- Include in scheduling info		FALSE		RBS-1861
- MAC logical channel priority		3		RBS-1862
- Downlink RLC logical channel info				RBS-1863
- Number of RLC logical channels		1		RBS-1864
- Downlink transport channel type		HS-DSCH		RBS-1865
- DL DCH Transport channel identity		Not Present		RBS-1866
- DL DSCH Transport channel identity		Not Present		RBS-1867
- CHOICE <i>DL MAC header type</i>		MAC-ehs		RBS-1868
- DL HS-DSCH MAC-ehs		1		RBS-1869
Queue Id		3		RBS-1870
- Logical channel identity				
- RB identity		4 (AM DCCH for NAS Low Priority)		RBS-1871
- RB mapping info				RBS-1872
- Information for each multiplexing option		1 RBMuxOption		RBS-1873
- RLC logical channel mapping indicator		Not Present		RBS-1874
- Number of uplink RLC logical channels		1		RBS-1875
- Uplink transport channel type		E-DCH		RBS-1876
- Logical channel identity		4		RBS-1877
- E-DCH MAC-d flow identity		1		RBS-1878
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS-1879

Information Element	Condition	Value/remark	Version	Index
- DDI		4		RBS-1880
- RLC PDU size list		1 RLC PDU size		RBS-1881
- RLC PDU size		144 bits		RBS-1882
- Include in scheduling info		FALSE		RBS-1883
- MAC logical channel priority		4		RBS-1884
- Downlink RLC logical channel info				RBS-1885
- Number of RLC logical channels		1		RBS-1886
- Downlink transport channel type		HS-DSCH		RBS-1887
- DL DCH Transport channel identity		Not Present		RBS-1888
- DL DSCH Transport channel identity		Not Present		RBS-1889
- CHOICE DL MAC header type		MAC-ehs		RBS-1890
- DL HS-DSCH MAC-ehs		1		RBS-1891
Queue Id				RBS-1892
- Logical channel identity		4		
RB information to be affected	A27, A27a		Rel-8	RBS-1893
- RB identity		1 (UM DCCH for RRC)		RBS-1894
- RB mapping info				RBS-1895
- Information for each multiplexing option		1 RBMuxOption		RBS-1896
- RLC logical channel mapping indicator		Not Present		RBS-1897
- Number of uplink RLC logical channels		1		RBS-1898
- Uplink transport channel type		E-DCH		RBS-1899
- Logical channel identity		1		RBS-1900
- E-DCH MAC-d flow identity		1		RBS-1901
- CHOICE RLC PDU size		Fixed size		RBS-1902
- DDI		Not Present		RBS-1903
- RLC PDU size list		1 RLC PDU size		RBS-1904
- RLC PDU size		144 bits		RBS-1905
- Include in scheduling info		FALSE		RBS-1906
- MAC logical channel priority		1		RBS-1907
- Downlink RLC logical channel info				RBS-1908
- Number of RLC logical channels		1		RBS-1909
- Downlink transport channel type		HS-DSCH		RBS-1910
- DL DCH Transport channel identity		Not present		RBS-1911
- DL DSCH Transport channel identity		Not present		RBS-1912
- CHOICE DL MAC header type		MAC-ehs		RBS-1913
- DL HS-DSCH MAC-ehs		1		RBS-1914
Queue Id				RBS-1915
- Logical channel identity		1		

Information Element	Condition	Value/remark	Version	Index
- RB identity		2 (AM DCCH for RRC)		RBS-1916
- RB mapping info				RBS-1917
- Information for each multiplexing option		1 RBMuxOption		RBS-1918
- RLC logical channel mapping indicator		Not Present		RBS-1919
- Number of uplink RLC logical channels		1		RBS-1920
- Uplink transport channel type		E-DCH		RBS-1921
- Logical channel identity		2		RBS-1922
- E-DCH MAC-d flow identity		1		RBS-1923
- CHOICE RLC PDU size		Fixed size		RBS-1924
- DDI		Not Present		RBS-1925
- RLC PDU size list		1 RLC PDU size		RBS-1926
- RLC PDU size		144 bits		RBS-1927
- Include in scheduling info		FALSE		RBS-1928
- MAC logical channel priority		2		RBS-1929
- Downlink RLC logical channel info				RBS-1930
- Number of RLC logical channels		1		RBS-1931
- Downlink transport channel type		HS-DSCH		RBS-1932
- DL DCH Transport channel identity		Not Present		RBS-1933
- DL DSCH Transport channel identity		Not Present		RBS-1934
- CHOICE DL MAC header type		MAC-ehs		RBS-1935
- DL HS-DSCH MAC-ehs		1		RBS-1936
Queue Id				
- Logical channel identity		2		RBS-1937
- RB identity		3 (AM DCCH for NAS High Priority)		RBS-1938
- RB mapping info				RBS-1939
- Information for each multiplexing option		1 RBMuxOption		RBS-1940
- RLC logical channel mapping indicator		Not Present		RBS-1941
- Number of uplink RLC logical channels		1		RBS-1942
- Uplink transport channel type		E-DCH		RBS-1943
- Logical channel identity		3		RBS-1944
- E-DCH MAC-d flow identity		1		RBS-1945
- CHOICE RLC PDU size		Fixed size		RBS-1946
- DDI		Not Present		RBS-1947
- RLC PDU size list		1 RLC PDU size		RBS-1948
- RLC PDU size		144 bits		RBS-1949
- Include in scheduling info		FALSE		RBS-1950
- MAC logical channel priority		3		RBS-1951

Information Element	Condition	Value/remark	Version	Index
- Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - RLC PDU size - Include in scheduling info - MAC logical channel priority info - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity		1 HS-DSCH Not Present Not Present MAC-ehs 1 3 4 (AM DCCH for NAS Low Priority) 1 RBMuxOption Not Present 1 E-DCH 4 1 Fixed size Not Present 1 RLC PDU size 144 bits FALSE 4 1 HS-DSCH Not Present Not Present MAC-ehs 1 4	RBS-1952 RBS-1953 RBS-1954 RBS-1955 RBS-1956 RBS-1957 RBS-1958 RBS-1959 RBS-1960 RBS-1961 RBS-1962 RBS-1963 RBS-1964 RBS-1965 RBS-1966 RBS-1967 RBS-1968 RBS-1969 RBS-1970 RBS-1971 RBS-1972 RBS-1973 RBS-1974 RBS-1975 RBS-1976 RBS-1977 RBS-1978 RBS-1979 RBS-1980 RBS-1981	
RB information to be affected	A30		Rel-8	RBS-1982
- RB identity		1 (UM DCCH for RRC)		RBS-1983
- RB mapping info				RBS-1984
- Information for each multiplexing option		1 RBMuxOption		RBS-1985
- RLC logical channel mapping indicator		Not Present		RBS-1986
- Number of uplink RLC logical channels		1		RBS-1987

Information Element	Condition	Value/remark	Version	Index
- Uplink transport channel type		E-DCH		RBS-1988
- Logical channel identity		1		RBS-1989
- E-DCH MAC-d flow identity		3		RBS-1990
- CHOICE RLC PDU size		Fixed size		RBS-1991
- DDI		0 (Not applicable for MAC-i/is)		RBS-1992
- RLC PDU size list		1 RLC PDU size		RBS-1993
- RLC PDU size		144 bits		RBS-1994
- Include in scheduling info		FALSE		RBS-1995
- MAC logical channel priority		1		RBS-1996
- Downlink RLC logical channel info				RBS-1997
- Number of RLC logical channels		1		RBS-1998
- Downlink transport channel type		HS-DSCH		RBS-1999
- DL DCH Transport channel identity		Not present		RBS-2000
- DL DSCH Transport channel identity		Not present		RBS-2001
- CHOICE DL MAC header type		MAC-ehs		RBS-2002
- DL HS-DSCH MAC-ehs		3		RBS-2003
Queue Id				
- Logical channel identity		1		RBS-2004
- RB identity		2 (AM DCCH for RRC)		RBS-2005
- RB mapping info				RBS-2006
- Information for each multiplexing option		1 RBMuxOption		RBS-2007
- RLC logical channel mapping indicator		Not Present		RBS-2008
- Number of uplink RLC logical channels		1		RBS-2009
- Uplink transport channel type		E-DCH		RBS-2010
- Logical channel identity		2		RBS-2011
- E-DCH MAC-d flow identity		3		RBS-2012
- CHOICE RLC PDU size		Fixed size		RBS-2013
- DDI		0 (Not applicable for MAC-i/is)		RBS-2014
- RLC PDU size list		1 RLC PDU size		RBS-2015
- RLC PDU size		144 bits		RBS-2016
- Include in scheduling info		FALSE		RBS-2017
- MAC logical channel priority		2		RBS-2018
- Downlink RLC logical channel info				RBS-2019
- Number of RLC logical channels		1		RBS-2020
- Downlink transport channel type		HS-DSCH		RBS-2021
- DL DCH Transport channel identity		Not Present		RBS-2022
- DL DSCH Transport channel identity		Not Present		RBS-2023

Information Element	Condition	Value/remark	Version	Index
- CHOICE DL MAC header type		MAC-ehs		RBS-2024
Queue Id	- DL HS-DSCH MAC-ehs	3		RBS-2025
	- Logical channel identity	2		RBS-2026
- RB identity		3 (AM DCCH for NAS High Priority)		RBS-2027
- RB mapping info				RBS-2028
Indicator	- Information for each multiplexing option	1 RBMuxOption		RBS-2029
	- RLC logical channel mapping indicator	Not Present		RBS-2030
info	- Number of uplink RLC logical channels	1		RBS-2031
	- Uplink transport channel type	E-DCH		RBS-2032
	- Logical channel identity	3		RBS-2033
	- E-DCH MAC-d flow identity	3		RBS-2034
	- CHOICE RLC PDU size	Fixed size	Rel-8	RBS-2035
	- DDI	0 (Not applicable for MAC-i/is)		RBS-2036
	- RLC PDU size list	1 RLC PDU size		RBS-2037
	- RLC PDU size	144 bits		RBS-2038
	- Include in scheduling info	FALSE		RBS-2039
	- MAC logical channel priority	3		RBS-2040
info	- Downlink RLC logical channel type			RBS-2041
	- Number of RLC logical channels	1		RBS-2042
	- Downlink transport channel identity	HS-DSCH		RBS-2043
	- DL DCH Transport channel identity	Not Present		RBS-2044
	- DL DSCH Transport channel identity	Not Present		RBS-2045
	- CHOICE DL MAC header type	MAC-ehs		RBS-2046
Queue Id	- DL HS-DSCH MAC-ehs	3		RBS-2047
	- Logical channel identity	3		RBS-2048
- RB identity		4 (AM DCCH for NAS Low Priority)		RBS-2049
- RB mapping info				RBS-2050
Indicator	- Information for each multiplexing option	1 RBMuxOption		RBS-2051
	- RLC logical channel mapping indicator	Not Present		RBS-2052
info	- Number of uplink RLC logical channels	1		RBS-2053
	- Uplink transport channel type	E-DCH		RBS-2054
	- Logical channel identity	4		RBS-2055
	- E-DCH MAC-d flow identity	3		RBS-2056
	- CHOICE RLC PDU size	Fixed size	Rel-8	RBS-2057
	- DDI	4		RBS-2058
	- RLC PDU size list	1 RLC PDU size		RBS-2059

Information Element	Condition	Value/remark	Version	Index
- RLC PDU size		144 bits		RBS-2060
- Include in scheduling info		FALSE		RBS-2061
- MAC logical channel priority		4		RBS-2062
- Downlink RLC logical channel info		1		RBS-2063
- Number of RLC logical channels		HS-DSCH		RBS-2064
- Downlink transport channel type		Not Present		RBS-2065
- DL DCH Transport channel identity		Not Present		RBS-2066
- DL DSCH Transport channel identity		MAC-ehs		RBS-2067
- CHOICE DL MAC header type		3		RBS-2068
- DL HS-DSCH MAC-ehs		4		RBS-2069
Queue Id				RBS-2070
- Logical channel identity				
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, A18, A19, A19a, A20, A21, A22, A24 , A23 , A25, A25a, A25b, A26, A27, A27a, A28, A29, A30	Not Present	Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8	RBS-2071 RBS-2072 RBS-2073 RBS-2074 RBS-2075 RBS-2076
	, A31, A32		Rel-8	RBS-2077
PDCP ROHC target mode	A9, A10 , A12, A13, A14, A15, A16 , A17, A17a, A17b, A17c, A17d, A17e, A18, A19, A19a, A20, A21, A22, A24 , A23 , A25, A25a, A25b, A26, A27, A27a, A28, A29, A30	Not Present	Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8	RBS-2078 RBS-2079 RBS-2080 RBS-2081 RBS-2082
	, A31, A32		Rel-8	RBS-2083
UL Transport channel information for all transport channels	A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10 , A17, A17a, A18 , A25a, A28 , A31, A32		Rel-5 Rel-7 Rel-8 Rel-9	RBS-2084 RBS-2085 RBS-2086 RBS-2087 RBS-2088
- PRACH TFCS		Not Present		RBS-2089
- CHOICE mode		FDD		RBS-2090
- TFC subset		Not Present		RBS-2091

Information Element	Condition	Value/remark	Version	Index
- UL DCH TFCS		Normal	RBS-2092	
- CHOICE TFCI signalling			RBS-2093	
- TFCI Field 1 information			RBS-2094	
- CHOICE TFCS representation		Complete reconfiguration	RBS-2095	
- TFCS complete reconfigure information			RBS-2096	
- CHOICE CTFC Size		Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set.	RBS-2097	
- CTFC information		This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set	RBS-2098	
- CTFC		Reference to clause 6.10.2.4 Parameter Set	RBS-2099	
- Power offset information			RBS-2100	
- CHOICE Gain Factors			RBS-2101	
- Gain factor β_c		Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (equal or higher than 64 kbps) when HSDPA is not configured 9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured 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-2102	
- Gain factor β_d		15 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)	RBS-2103	
- Reference TFC ID		0	RBS-2104	
- CHOICE mode		FDD	RBS-2105	
- Power offset P p-m		Not Present	RBS-2106	
UL Transport channel information for all transport channels	A12		Rel-6	RBS-2107
	A19		Rel-7	RBS-2108
- PRACH TFCS		Not Present		RBS-2109
- CHOICE mode		FDD		RBS-2110
- TFC subset		Not Present		RBS-2111
- UL DCH TFCS				RBS-2112
- CHOICE TFCI signalling		Normal		RBS-2113
- TFCI Field 1 information				RBS-2114
- CHOICE TFCS representation		Complete reconfiguration		RBS-2115
- TFCS complete reconfigure information				RBS-2116
- CHOICE CTFC Size		ctfc2bit		RBS-2117
- CTFC information				RBS-2118
- CTFC		0 ((UL DCH RAB, DCCH)=(TF0, TF0))		RBS-2119
- Power offset information				RBS-2120
- CHOICE Gain Factors		Computed Gain Factors		RBS-2121

Information Element	Condition	Value/remark	Version	Index
- CTFC - Power offset information - CHOICE Gain Factors - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P _{p-m}		1 ((UL DCH RAB, DCCH)=(TF0, TF1)) Signalled Gain Factors 11 (below 64 kbps) 9 (equal or higher than 64 kbps) when HSDPA is not configured 9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured 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) 15 0 FDD Not Present		RBS-2122 RBS-2123 RBS-2124 RBS-2125 RBS-2126 RBS-2127 RBS-2128 RBS-2129
UL Transport channel information for all transport channels	A13, A14, A15, A16, A17b, A17c, A17d, A17e, A19a, A20, A21, A22, A24 , A23 , A25, A25b, A26, A27, A27a, A29, A30	Not Present	Rel-6 Rel-7 Rel-7 Rel-8 Rel-8	RBS-2130 RBS-2131 RBS-2132 RBS-2133
Deleted UL TrCH information	A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10 , A12 , A17, A17a, A18, A19, A20, A21, A24 , A23 , A28, A29, A30 , A31, A32	Not Present	Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 Rel-9	RBS-2134 RBS-2135 RBS-2136 RBS-2137 RBS-2138 RBS-2139 RBS-2140
Deleted UL TrCH information	A13, A14, A15, A16 A17b, A17c, A17d, A17e, A19a, A22, A26, A27, A27a A25, A25b		Rel-6 Rel-7 Rel-8	RBS-2141 RBS-2142 RBS-2143
- Uplink transport channel type - UL transport channel identity	DCH 5			RBS-2144 RBS-2145
Added or Reconfigured UL TrCH information	A1, A3 A4, A5, A6, A7 , A9, A10 , A17, A17a, A18 , A28	1 DCH added, 1 DCH reconfigured (if from cell_DCH) OR 2 DCHs added (if from cell_FACH) DCH 1	Rel-5 Rel-7 Rel-8	RBS-2146 RBS-2147 RBS-2148 RBS-2149 RBS-2150 RBS-2151 RBS-2152

Information Element	Condition	Value/remark	Version	Index
- CHOICE Transport channel type		Dedicated transport channels		RBS-2153
- Dynamic Transport format information				RBS-2154
- RLC Size		Reference to clause 6.10 Parameter Set		RBS-2155
- Number of TBs and TTI List		(This IE is repeated for TFI number.)		RBS-2156
- Transmission Time Interval		Not Present		RBS-2157
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS-2158
- CHOICE Logical channel list		All		RBS-2159
- Semi-static Transport Format information				RBS-2160
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2161
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2162
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2163
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2164
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2165
- Uplink transport channel type		DCH		RBS-2166
- UL Transport channel identity		5		RBS-2167
- TFS				RBS-2168
- CHOICE Transport channel type		Dedicated transport channels		RBS-2169
- Dynamic Transport format information				RBS-2170
- RLC Size		Reference to clause 6.10 Parameter Set		RBS-2171
- Number of TBs and TTI List		(This IE is repeated for TFI number.)		RBS-2172
- Transmission Time Interval		Not Present		RBS-2173
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS-2174
- CHOICE Logical channel list		All		RBS-2175
- Semi-static Transport Format information				RBS-2176
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2177
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2178
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2179
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2180
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2181
Added or Reconfigured UL TrCH information	A11	1 DCH added for DTCH		RBS-2182
- Uplink transport channel type		DCH		RBS-2183
- UL Transport channel identity		4		RBS-2184
- TFS				RBS-2185
- CHOICE Transport channel type		Dedicated transport channels		RBS-2186
- Dynamic Transport format information				RBS-2187
- RLC Size		Reference to clause 6.10 Parameter Set		RBS-2188
- Number of TBs and TTI List		(This IE is repeated for TFI number.)		RBS-2189

Information Element	Condition	Value/remark	Version	Index
- Transmission Time Interval		Not Present		RBS-2190
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS-2191
- CHOICE Logical channel list		All		RBS-2192
- Semi-static Transport Format information				RBS-2193
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2194
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2195
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2196
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2197
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2198
Added or Reconfigured UL TrCH information	A2, A8	4 TrCHs(DCH for DCCH and 3DCHs for DTCH) DCH		RBS-2199
- Uplink transport channel type		5		RBS-2200
- UL Transport channel identity		Dedicated transport channels		RBS-2201
- TFS				RBS-2202
- CHOICE Transport channel type				RBS-2203
- Dynamic Transport format information				RBS-2204
- RLC Size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS-2205
- Number of TBs and TTI List		Not Present		RBS-2206
- Transmission Time Interval		Reference to clause 6.10 Parameter Set		RBS-2207
- Number of Transport blocks		All		RBS-2208
- CHOICE Logical channel list				RBS-2209
- Semi-static Transport Format information				RBS-2210
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2211
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2212
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2213
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2214
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2215
- Uplink transport channel type		DCH		RBS-2216
- UL Transport channel identity		1		RBS-2217
- TFS		Dedicated transport channels		RBS-2218
- CHOICE Transport channel type				RBS-2219
- Dynamic Transport format information				RBS-2220
- RLC Size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS-2221
- Number of TBs and TTI List		Not Present		RBS-2222
- Transmission Time Interval		Reference to clause 6.10 Parameter Set		RBS-2223
- Number of Transport blocks		All		RBS-2224
- CHOICE Logical channel list				RBS-2225
- Semi-static Transport Format information				RBS-2226

Information Element	Condition	Value/remark	Version	Index
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2227
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2228
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2229
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2230
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2231
- Uplink transport channel type	DCH			RBS-2232
- UL Transport channel identity	2			RBS-2233
- TFS				RBS-2234
- CHOICE Transport channel type		Dedicated transport channels		RBS-2235
- Dynamic Transport format information				RBS-2236
- RLC Size		Reference to clause 6.10 Parameter Set		RBS-2237
- Number of TBs and TTI List		(This IE is repeated for TFI number.)		RBS-2238
- Transmission Time Interval		Not Present		RBS-2239
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS-2240
- CHOICE Logical channel list	All			RBS-2241
- Semi-static Transport Format information				RBS-2242
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2243
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2244
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2245
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2246
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2247
- Uplink transport channel type	DCH			RBS-2248
- UL Transport channel identity	3			RBS-2249
- TFS				RBS-2250
- CHOICE Transport channel type		Dedicated transport channels		RBS-2251
- Dynamic Transport format information				RBS-2252
- RLC Size		Reference to clause 6.10 Parameter Set		RBS-2253
- Number of TBs and TTI List		(This IE is repeated for TFI number.)		RBS-2254
- Transmission Time Interval		Not Present		RBS-2255
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS-2256
- CHOICE Logical channel list	All			RBS-2257
- Semi-static Transport Format information				RBS-2258
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2259
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2260
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2261
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2262
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2263

Information Element	Condition	Value/remark	Version	Index
Added or Reconfigured UL TrCH information	A12	1 E-DCH added, 1 DCH added, 1 DCH reconfigured	Rel-6	RBS-2264
- Uplink transport channel type	A19	E-DCH	Rel-7	RBS-2265
- CHOICE UL parameters		E-DCH		RBS-2266
- UL MAC header type		Not present	Rel-8	RBS-2267
- UL MAC header type	MAC-I-FIXED, MAC-I-FLEX	MAC-i/is	Rel-8	RBS-2268
- 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-2269
- HARQ info for E-DCH		rvtable		RBS-2270
- HARQ RV Configuration				RBS-2271
- Added or reconfigured E-DCH MAC-d flow				RBS-2272
- E-DCH MAC-d flow identity		2		RBS-2273
- E-DCH MAC-d flow power offset		0		RBS-2274
- E-DCH MAC-d flow maximum number of retransmissions		7		RBS-2275
- E-DCH MAC-d flow multiplexing list		Not Present		RBS-2276
- CHOICE transmission grant type		Scheduled grant info		RBS-2277
- Uplink transport channel type		DCH		RBS-2278
- UL Transport channel identity		1		RBS-2279
- TFS				RBS-2280
- CHOICE Transport channel type		Dedicated transport channels		RBS-2281
- Dynamic Transport format information				RBS-2282
- RLC Size		Reference to clause 6.10 Parameter Set		RBS-2283
- Number of TBs and TTI List		(This IE is repeated for TFI number.)		RBS-2284
- Transmission Time Interval		Not Present		RBS-2285
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS-2286
- CHOICE Logical channel list		All		RBS-2287
- Semi-static Transport Format information				RBS-2288
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2289
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2290
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2291
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2292
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2293
- Uplink transport channel type		DCH		RBS-2294
- UL Transport channel identity		5		RBS-2295
- TFS				RBS-2296
- CHOICE Transport channel type		Dedicated transport channels		RBS-2297

Information Element	Condition	Value/remark	Version	Index
- Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set		RBS-2299 RBS-2300 RBS-2301 RBS-2302 RBS-2303 RBS-2304 RBS-2305 RBS-2306 RBS-2307 RBS-2308 RBS-2309 RBS-2310
Added or Reconfigured UL TrCH information	A13, A14, A17b, A17c, A17d, A17e, A19a, A20 , A25, A25b, A27, A27a , A31, A32	1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow	Rel-6	RBS-2311
- Uplink transport channel type - CHOICE UL parameters - UL MAC header type - UL MAC header type - E-DCH Transmission Time Interval	MAC-I-FIXED, MAC-I-FLEX	E-DCH E-DCH Not present MAC-i/is set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI	Rel-7 Rel-8 Rel-9 Rel-8	RBS-2312 RBS-2313 RBS-2314 RBS-2315 RBS-2316 RBS-2317 RBS-2318 RBS-2319
- HARQ info for E-DCH - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type - Max MAC-e PDU contents size - Max MAC-e PDU contents size - 2 ms non-scheduled transmission grant HARQ process allocation - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity	MAC-I-FIXED, MAC-I-FLEX	rvtable (for DCCH) 1 0 7 Not Present Non-scheduled grant info 168 bits 162 bits Not Present (for DTCH) 2	Rel-8	RBS-2320 RBS-2321 RBS-2322 RBS-2323 RBS-2324 RBS-2325 RBS-2326 RBS-2327 RBS-2328 RBS-2329 RBS-2330 RBS-2331 RBS-2332

Information Element	Condition	Value/remark	Version	Index
- E-DCH MAC-d flow power offset		0		RBS-2333
- E-DCH MAC-d flow maximum number of retransmissions		7		RBS-2334
- E-DCH MAC-d flow multiplexing list		Not Present		RBS-2335
- CHOICE transmission grant type		Scheduled grant info		RBS-2336
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	RBS-2337
- Uplink transport channel type		E-DCH		RBS-2338
- CHOICE UL parameters		E-DCH		RBS-2339
- UL MAC header type		Not present	Rel-8	RBS-2340
- UL MAC header type	MAC-I-FIXED, MAC-I-FLEX	MAC-i/is	Rel-8	RBS-2341
- 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-2342
- HARQ info for E-DCH				RBS-2343
- HARQ RV Configuration		rvtable		RBS-2344
- Added or reconfigured E-DCH MAC-d flow		(for DCCH)		RBS-2345
- E-DCH MAC-d flow identity		1		RBS-2346
- E-DCH MAC-d flow power offset		0		RBS-2347
- E-DCH MAC-d flow maximum number of retransmissions		7		RBS-2348
- E-DCH MAC-d flow multiplexing list		Not Present		RBS-2349
- CHOICE transmission grant type		Non-scheduled grant info		RBS-2350
size		162 bits		RBS-2351
size	MAC-I-FIXED, MAC-I-FLEX	168 bits	Rel-8	RBS-2352
size		Not Present		RBS-2353
2 ms non-scheduled transmission grant HARQ process allocation		(for first DTCH)		RBS-2354
- Added or reconfigured E-DCH MAC-d flow		2		RBS-2355
- E-DCH MAC-d flow identity		0		RBS-2356
- E-DCH MAC-d flow power offset		7		RBS-2357
- E-DCH MAC-d flow maximum number of retransmissions		Not Present		RBS-2358
- E-DCH MAC-d flow multiplexing list		Scheduled grant info		RBS-2359
- CHOICE transmission grant type		(for second DTCH)		RBS-2360
- Added or reconfigured E-DCH MAC-d flow		3		RBS-2361
- E-DCH MAC-d flow identity		0		RBS-2362
- E-DCH MAC-d flow power offset		7		RBS-2363
- E-DCH MAC-d flow maximum number of retransmissions		Not Present		RBS-2364
- E-DCH MAC-d flow multiplexing list		Scheduled grant info		RBS-2365
- CHOICE transmission grant type				

Information Element	Condition	Value/remark	Version	Index
Added or Reconfigured UL TrCH information	A16 , A21, A22	1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows E-DCH E-DCH Not present MAC-i/is FDD set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI rvtable (for DCCH) 1 0 7 Not Present Non-scheduled grant info 162 bits 168 bits Not Present (for first DTCH) 2 0 7 Not Present Scheduled grant info (for second DTCH) 4 0 7 Not Present Scheduled grant info	Rel-6 Rel-7 Rel-8 Rel-8 Rel-8 Rel-7 RBS-2366 RBS-2367 RBS-2368 RBS-2369 RBS-2370 RBS-2371 RBS-2372 RBS-2373 RBS-2374 RBS-2375 RBS-2376 RBS-2377 RBS-2378 RBS-2379 RBS-2380 RBS-2381 RBS-2382 RBS-2383 RBS-2384 RBS-2385 RBS-2386 RBS-2387 RBS-2388 RBS-2389 RBS-2390 RBS-2391 RBS-2392 RBS-2393 RBS-2394 RBS-2395 RBS-2396	RBS-2366 RBS-2367 RBS-2368 RBS-2369 RBS-2370 RBS-2371 RBS-2372 RBS-2373 RBS-2374 RBS-2375 RBS-2376 RBS-2377 RBS-2378 RBS-2379 RBS-2380 RBS-2381 RBS-2382 RBS-2383 RBS-2384 RBS-2385 RBS-2386 RBS-2387 RBS-2388 RBS-2389 RBS-2390 RBS-2391 RBS-2392 RBS-2393 RBS-2394 RBS-2395 RBS-2396
Added or Reconfigured UL TrCH information	A23	1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow E-DCH	Rel-7 Rel-8	RBS-2397 RBS-2398

Information Element	Condition	Value/remark	Version	Index
- CHOICE UL parameters		E-DCH		RBS-2399
- UL MAC header type		Not present	Rel-8	RBS-2400
- UL MAC header type	MAC-I-FIXED, MAC-I-FLEX	MAC-i/is	Rel-8	RBS-2401
- 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-2402
- HARQ info for E-DCH				RBS-2403
- HARQ RV Configuration		rvtble		RBS-2404
- Added or reconfigured E-DCH MAC-d flow		(for DCCH)		RBS-2405
- E-DCH MAC-d flow identity		1		RBS-2406
- E-DCH MAC-d flow power offset		0		RBS-2407
- E-DCH MAC-d flow maximum number of retransmissions		7		RBS-2408
- E-DCH MAC-d flow multiplexing list		Not Present		RBS-2409
- CHOICE transmission grant type		Non-scheduled grant info		RBS-2410
- Max MAC-e PDU contents size		162 bits	Rel-6	RBS-2411
- Max MAC-e PDU contents size	MAC-I-FIXED, MAC-I-FLEX	168 bits	Rel-8	RBS-2412
- 2 ms non-scheduled transmission grant HARQ process allocation		'01000000'B if 2ms TTI configured otherwise Not Present		RBS-2413
- Added or reconfigured E-DCH MAC-d flow		(for DTCH)		RBS-2414
- E-DCH MAC-d flow identity		2		RBS-2415
- E-DCH MAC-d flow power offset		0		RBS-2416
- E-DCH MAC-d flow maximum number of retransmissions		3 if 2ms TTI configured, otherwise 1		RBS-2417
- E-DCH MAC-d flow multiplexing list		Not Present		RBS-2418
- CHOICE transmission grant type		Non-scheduled grant info		RBS-2419
- Max MAC-e PDU contents size		546 bits	Rel-6	RBS-2420
- Max MAC-e PDU contents size	MAC-I-FIXED, MAC-I-FLEX	552 bits	Rel-8	RBS-2421
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-2422
- Uplink transport channel type		E-DCH		RBS-2423
- CHOICE UL parameters		E-DCH		RBS-2424
- UL MAC header type		Not present		RBS-2425
- UL MAC header type		MAC-i/is		RBS-2426
- CHOICE mode		FDD	Rel-7	RBS-2427
- 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-2428
- HARQ info for E-DCH				RBS-2429
- HARQ RV Configuration		rvtble		RBS-2430

Information Element	Condition	Value/remark	Version	Index
- Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type - Max MAC-e PDU contents size - 2 ms non-scheduled transmission grant HARQ process allocation - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type		(for DCCH) 1 0 7 Not Present Non-scheduled grant info 168 bits Not Present (for first DTCH) 2 0 7 Not Present Scheduled grant info (for second DTCH) 3 0 7 Not Present Scheduled grant info (for third DTCH) 4 0 7 Not Present Scheduled grant info	RBS-2431 RBS-2432 RBS-2433 RBS-2434 RBS-2435 RBS-2436 RBS-2437 RBS-2438 RBS-2439 RBS-2440 RBS-2441 RBS-2442 RBS-2443 RBS-2444 RBS-2445 RBS-2446 RBS-2447 RBS-2448 RBS-2449 RBS-2450 RBS-2451 RBS-2452 RBS-2453 RBS-2454 RBS-2455 RBS-2456	
Added or Reconfigured UL TrCH information - Uplink transport channel type - CHOICE UL parameters - UL MAC header type - E-DCH Transmission Time Interval - HARQ info for E-DCH - HARQ RV Configuration	A29 MAC-I-FIXED, MAC-I-FLEX	one DTCH MAC-d flow E-DCH E-DCH MAC-i/is set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI rvtable	Rel-8 Rel-8	RBS-2457 RBS-2458 RBS-2459 RBS-2460 RBS-2461 RBS-2462 RBS-2463

Information Element	Condition	Value/remark	Version	Index
- Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type		0 0 7 Not Present Scheduled grant info		RBS-2464 RBS-2465 RBS-2466 RBS-2467 RBS-2468 RBS-2469
Added or Reconfigured UL TrCH information - Uplink transport channel type - CHOICE UL parameters - UL MAC header type - E-DCH Transmission Time Interval - HARQ info for E-DCH - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type size - Max MAC-e PDU contents - 2 ms non-scheduled transmission grant HARQ process allocation - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type	A30 MAC-I-FIXED, MAC-I-FLEX	1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow E-DCH E-DCH MAC-i/is set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI rvtable (for DCCH) 2 0 7 Not Present Non-scheduled grant info 168 bits Not Present (for DTCH) 3 0 7 Not Present Scheduled grant info	Rel-8	RBS-2470 RBS-2471 RBS-2472 RBS-2473 RBS-2474 RBS-2475 RBS-2476 RBS-2477 RBS-2478 RBS-2479 RBS-2480 RBS-2481 RBS-2482 RBS-2483 RBS-2484 RBS-2485 RBS-2486 RBS-2487 RBS-2488 RBS-2489 RBS-2490
DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters	A1, A2, A7, A8	Not Present FDD SameasUL		RBS-2491 RBS-2492 RBS-2493 RBS-2494
DL Transport channel information common for all transport channel	A3, A4, A5, A6, A11 A10		Rel-5	RBS-2495 RBS-2496

Information Element	Condition	Value/remark	Version	Index
- SCCPCH TFCS - CHOICE mode - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI Signalling - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information - CTFC - Power offset information	A12, A13, A15 , A17, A18, A17a, A17d, A17e, A19, A19a A25a, A25b, A26, A28 A31, A32	Not Present FDD Explicit Normal Complete reconfiguration 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 Reference to clause 6.10.2.4 Parameter Set Not Present	Rel-6 Rel-7 Rel-8 Rel-9	RBS-2497 RBS-2498 RBS-2499 RBS-2500 RBS-2501 RBS-2502 RBS-2503 RBS-2504 RBS-2505 RBS-2506 RBS-2507 RBS-2508 RBS-2509 RBS-2510 RBS-2511 RBS-2512
DL Transport channel information common for all transport channel	A9		Rel-5	RBS-2513
- SCCPCH TFCS - CHOICE mode - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI Signalling - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information - CTFC - Power offset information		Not Present FDD Explicit Normal Complete reconfiguration ctfc2bit 0 ((DL DCH RAB, DCCH)=(TF0, TF0)) Not Present 1 ((DL DCH RAB, DCCH)=(TF0, TF1)) Not Present		RBS-2514 RBS-2515 RBS-2516 RBS-2517 RBS-2518 RBS-2519 RBS-2520 RBS-2521 RBS-2522 RBS-2523 RBS-2524 RBS-2525 RBS-2526 RBS-2527
DL Transport channel information common for all transport channel	A14, A16 A17b, A17c, A20, A21, A22, A24, A23 A25, A27, A27a, A29, A30	Not Present	Rel-6 Rel-7 Rel-7 Rel-8 Rel-8	RBS-2528 RBS-2529 RBS-2530 RBS-2531

Information Element	Condition	Value/remark	Version	Index
Deleted DL TrCH information	A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 , A12, A13 , A17, A18, A17a, A17d, A17e, A19, A19a, A20, A21, A24 , A25a, A25b, A26, A28, A29, A30 , A31, A32	Not Present	Rel-5 Rel-6 Rel-7 Rel-8 Rel-9	RBS-2532 RBS-2533 RBS-2534 RBS-2535 RBS-2536 RBS-2537
Deleted DL TrCH information	A14, A16 A17b, A17c, A22 A25, A27, A27a	DCH 10	Rel-6 Rel-7 Rel-8	RBS-2538 RBS-2539 RBS-2540 RBS-2541 RBS-2542
Added or Reconfigured DL TrCH information	A1	1 DCH added, 1 DCH reconfigured DCH 6 Same as UL DCH 1 -20 (-2.0) DCH 10 Same as UL DCH 5 -20 (-2.0)		RBS-2543 RBS-2544 RBS-2545 RBS-2546 RBS-2547 RBS-2548 RBS-2549 RBS-2550 RBS-2551 RBS-2552 RBS-2553 RBS-2554 RBS-2555 RBS-2556 RBS-2557
Added or Reconfigured DL TrCH information	A3, A4, A5, A6, A7	2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 10 Same as UL DCH 5 -20 (-2.0) DCH 6 Explicit Except for RAB with the symmetric DL		RBS-2558 RBS-2559 RBS-2560 RBS-2561 RBS-2562 RBS-2563 RBS-2564 RBS-2565 RBS-2566 RBS-2567 RBS-2568

Information Element	Condition	Value/remark	Version	Index
- TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value		and UL rate: Same as UL Dedicated transport channel Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set only including TF0 All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set -20 (-2.0)	RBS-2569 RBS-2570 RBS-2571 RBS-2572 RBS-2573 RBS-2574 RBS-2575 RBS-2576 RBS-2577 RBS-2578 RBS-2579 RBS-2580 RBS-2581 RBS-2582 RBS-2583 RBS-2584	
Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information	A2, A8	4 TrCHs(DCH for DCCH and 3DCHs for DTCH) DCH 10 Same as UL DCH 5 -20 (-2.0) DCH 6 Explicit Dedicated transport channel Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All	RBS-2585 RBS-2586 RBS-2587 RBS-2588 RBS-2589 RBS-2590 RBS-2591 RBS-2592 RBS-2593 RBS-2594 RBS-2595 RBS-2596 RBS-2597 RBS-2598 RBS-2599 RBS-2600 RBS-2601 RBS-2602 RBS-2603 RBS-2604 RBS-2605	

Information Element	Condition	Value/remark	Version	Index
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2606
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2607
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2608
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2609
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2610
- DCH quality target				RBS-2611
- BLER Quality value		Not Present		RBS-2612
- Downlink transport channel type		DCH		RBS-2613
- DL Transport channel identity		7		RBS-2614
- CHOICE DL parameters		Explicit		RBS-2615
- TFS				RBS-2616
- CHOICE Transport channel type		Dedicated transport channel		RBS-2617
- Dynamic transport format information				RBS-2618
- RLC Size		Reference to clause 6.10 Parameter Set		RBS-2619
- Number of TBs and TTI List		(This IE is repeated for TFI number.)		RBS-2620
- Dynamic transport format information				RBS-2621
- Transmission Time Interval		Not Present		RBS-2622
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS-2623
- CHOICE Logical channel list		All		RBS-2624
- Semi-static Transport Format information				RBS-2625
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2626
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2627
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2628
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2629
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2630
- DCH quality target				RBS-2631
- BLER Quality value		Not Present		RBS-2632
- Downlink transport channel type		DCH		RBS-2633
- DL Transport channel identity		8		RBS-2634
- CHOICE DL parameters		Explicit		RBS-2635
- TFS				RBS-2636
- CHOICE Transport channel type		Dedicated transport channel		RBS-2637
- Dynamic transport format information				RBS-2638
- RLC Size		Reference to clause 6.10 Parameter Set		RBS-2639
- Number of TBs and TTI List		(This IE is repeated for TFI number.)		RBS-2640
- Dynamic transport format information				RBS-2641
- Transmission Time Interval		Not Present		RBS-2642

Information Element	Condition	Value/remark	Version	Index
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS-2643
- CHOICE Logical channel list		All		RBS-2644
- Semi-static Transport Format information				RBS-2645
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2646
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2647
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2648
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2649
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2650
- DCH quality target		Reference to clause 6.10 Parameter Set		RBS-2651
- BLER Quality value		Not Present		RBS-2652
Added or Reconfigured DL TrCH information	A9 A12 A19, A19a	3 TrCHs (DCH for DCCH and DCH plus HS-DSCH for DTCH) DCH 10 Same as UL DCH 5 -20 (-2.0) DCH 6 Explicit Dedicated transport channel Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set	Rel-5 Rel-6 Rel-7	RBS-2653 RBS-2654 RBS-2655 RBS-2656 RBS-2657 RBS-2658 RBS-2659 RBS-2660 RBS-2661 RBS-2662 RBS-2663 RBS-2664 RBS-2665 RBS-2666 RBS-2667 RBS-2668 RBS-2669 RBS-2670 RBS-2671 RBS-2672 RBS-2673 RBS-2674 RBS-2675 RBS-2676 RBS-2677 RBS-2678 RBS-2679 RBS-2680

Information Element	Condition	Value/remark	Version	Index
- DCH quality target			RBS-2681	
- BLER Quality value		-20 (-2.0)	RBS-2682	
- Downlink transport channel type		HS-DSCH	RBS-2683	
- DL Transport channel identity		Not Present	RBS-2684	
- CHOICE DL parameters		HS-DSCH	RBS-2685	
- HARQ Info			RBS-2686	
- Number of Processes		Reference to clause 6.10.2.4.5 Parameter Set Implicit	RBS-2687	
- CHOICE Memory			RBS-2688	
<i>Partitioning</i>	- Added or reconfigured MAC-d flow	(one queue)	RBS-2689	
	- MAC-hs queue to add or reconfigure list	0	RBS-2690	
	- MAC-hs queue Id	0	RBS-2691	
	- MAC-d Flow Identity	0	RBS-2692	
	- T1	50	RBS-2693	
	- MAC-hs window size	16	RBS-2694	
	- MAC-d PDU size Info		RBS-2695	
	- MAC-d PDU size	336	RBS-2696	
	- MAC-d PDU size index	0	RBS-2697	
	- MAC-hs queue to delete list	Not present	RBS-2698	
- DCH quality target		Not present	RBS-2699	
Added or Reconfigured DL TrCH information	A10	2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Same as UL DCH 5 -20 (-2.0) HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5 Parameter Set Implicit	Rel-5	RBS-2700
- Downlink transport channel type		DCH		RBS-2701
- DL Transport channel identity		10		RBS-2702
- CHOICE DL parameters		Same as UL		RBS-2703
- Uplink transport channel type		DCH		RBS-2704
- UL TrCH identity		5		RBS-2705
- DCH quality target				RBS-2706
- BLER Quality value				RBS-2707
- Downlink transport channel type		HS-DSCH		RBS-2708
- DL Transport channel identity		Not Present		RBS-2709
- CHOICE DL parameters		HS-DSCH		RBS-2710
- HARQ Info				RBS-2711
- Number of Processes				RBS-2712
- CHOICE Memory				RBS-2713
<i>Partitioning</i>	- Added or reconfigured MAC-d flow	(one queue)		RBS-2714
	- MAC-hs queue to add or reconfigure list	0		RBS-2715
	- MAC-hs queue Id	0		RBS-2716
	- MAC-d Flow Identity	0		RBS-2717

Information Element	Condition	Value/remark	Version	Index
- T1		50		RBS-2718
- MAC-hs window size		16		RBS-2719
- MAC-d PDU size Info				RBS-2720
- MAC-d PDU size		336		RBS-2721
- MAC-d PDU size index		0		RBS-2722
- MAC-hs queue to delete list		Not present		RBS-2723
- DCH quality target		Not present		RBS-2724
Added or Reconfigured DL TrCH information	A11	1 DCH for DTCH		RBS-2725
- Downlink transport channel type		DCH		RBS-2726
- DL Transport channel identity		9		RBS-2727
- CHOICE DL parameters		Explicit		RBS-2728
- TFS				RBS-2729
- CHOICE Transport channel type		Dedicated transport channel		RBS-2730
- Dynamic transport format information				RBS-2731
- RLC Size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS-2732
- Number of TBs and TTI List				RBS-2733
- Dynamic transport format information				RBS-2734
- Transmission Time Interval		Not Present		RBS-2735
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS-2736
- CHOICE Logical channel list		All		RBS-2737
- Semi-static Transport Format information				RBS-2738
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2739
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2740
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2741
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2742
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2743
- DCH quality target				RBS-2744
- BLER Quality value		-20 (-2.0)		RBS-2745
Added or Reconfigured DL TrCH information	A13	2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH	Rel-6	RBS-2746
- Downlink transport channel type		10		RBS-2747
- DL Transport channel identity				RBS-2748
- CHOICE DL parameters		Explicit		RBS-2749
- TFS				RBS-2750
- CHOICE Transport channel type		Dedicated transport channels		RBS-2751
- Dynamic Transport format information				RBS-2752
- RLC Size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS-2753
- Number of TBs and TTI List				RBS-2754

Information Element	Condition	Value/remark	Version	Index
- Transmission Time Interval		Not Present		RBS-2755
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS-2756
- CHOICE Logical channel list		All		RBS-2757
- Semi-static Transport Format information				RBS-2758
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS-2759
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS-2760
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS-2761
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-2762
- CRC size		Reference to clause 6.10 Parameter Set		RBS-2763
- DCH quality target				RBS-2764
- BLER Quality value		-20 (-2.0)		RBS-2765
- Downlink transport channel type		HS-DSCH		RBS-2766
- DL Transport channel identity		Not Present		RBS-2767
- CHOICE DL parameters		HS-DSCH		RBS-2768
- HARQ Info				RBS-2769
- Number of Processes		Reference to clause 6.10.2.4.5 Parameter Set		RBS-2770
- CHOICE Memory		Implicit		RBS-2771
<i>Partitioning</i> flow	- Added or reconfigured MAC-d			RBS-2772
	- MAC-hs queue to add or reconfigure list	(one queue)		RBS-2773
	- MAC-hs queue Id	0		RBS-2774
	- MAC-d Flow Identity	0		RBS-2775
	- T1	50		RBS-2776
	- MAC-hs window size	16		RBS-2777
	- MAC-d PDU size Info			RBS-2778
	- MAC-d PDU size	336		RBS-2779
	- MAC-d PDU size index	0		RBS-2780
	- MAC-hs queue to delete list	Not present		RBS-2781
<i>Partitioning</i> information	- DCH quality target	Not present		RBS-2782
	A14	1 TrCH (HS-DSCH for DTCH and DCCH)	Rel-6	RBS-2783
	, A20		Rel-7	RBS-2784
	- Downlink transport channel type	HS-DSCH		RBS-2785
	- DL Transport channel identity	Not Present		RBS-2786
	- CHOICE DL parameters	HS-DSCH		RBS-2787
	- HARQ Info			RBS-2788
	- Number of Processes	Reference to clause 6.10.2.4.5 Parameter Set		RBS-2789
	- CHOICE Memory	Implicit		RBS-2790
	- Added or reconfigured MAC-d			RBS-2791

Information Element	Condition	Value/remark	Version	Index
- MAC-hs queue to add or reconfigure list - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target		(two queues) 0 (for DTCH) 0 50 16 336 0 1 (for DCCH) 1 50 16 148 0 Not present Not present		RBS-2792 RBS-2793 RBS-2794 RBS-2795 RBS-2796 RBS-2797 RBS-2798 RBS-2799 RBS-2800 RBS-2801 RBS-2802 RBS-2803 RBS-2804 RBS-2805 RBS-2806 RBS-2807 RBS-2808
Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value	A15	2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Explicit Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set -20 (-2.0)	Rel-6	RBS-2809 RBS-2810 RBS-2811 RBS-2812 RBS-2813 RBS-2814 RBS-2815 RBS-2816 RBS-2817 RBS-2818 RBS-2819 RBS-2820 RBS-2821 RBS-2822 RBS-2823 RBS-2824 RBS-2825 RBS-2826 RBS-2827 RBS-2828

Information Element	Condition	Value/remark	Version	Index
- Downlink transport channel type		HS-DSCH		RBS-2829
- DL Transport channel identity		Not Present		RBS-2830
- CHOICE DL parameters		HS-DSCH		RBS-2831
- HARQ Info				RBS-2832
- Number of Processes		Reference to clause 6.10.2.4.5 Parameter Set Implicit		RBS-2833
- CHOICE Memory				RBS-2834
<i>Partitioning</i>				
- Added or reconfigured MAC-d flow				RBS-2835
- MAC-hs queue to add or reconfigure list		(two queues)		RBS-2836
- MAC-hs queue Id		0 (for first DTCH)		RBS-2837
- MAC-d Flow Identity		0		RBS-2838
- T1		50		RBS-2839
- MAC-hs window size		16		RBS-2840
- MAC-d PDU size Info				RBS-2841
- MAC-d PDU size		336		RBS-2842
- MAC-d PDU size index		0		RBS-2843
- MAC-hs queue Id		2 (for second DTCH)		RBS-2844
- MAC-d Flow Identity		2		RBS-2845
- T1		50		RBS-2846
- MAC-hs window size		16		RBS-2847
- MAC-d PDU size Info				RBS-2848
- MAC-d PDU size		336		RBS-2849
- MAC-d PDU size index		0		RBS-2850
- MAC-hs queue to delete list		Not present		RBS-2851
- DCH quality target		Not present		RBS-2852
Added or Reconfigured DL TrCH information	A16 , A21	1 TrCH (HS-DSCH for 2 DTCHs and DCCH) HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5 Parameter Set Implicit	Rel-6 Rel-7	RBS-2853 RBS-2854 RBS-2855 RBS-2856 RBS-2857 RBS-2858 RBS-2859 RBS-2860
<i>Partitioning</i>				
- Added or reconfigured MAC-d flow				RBS-2861
- MAC-hs queue to add or reconfigure list		(three queues)		RBS-2862
- MAC-hs queue Id		0 (for first DTCH)		RBS-2863
- MAC-d Flow Identity		0		RBS-2864
- T1		50		RBS-2865

Information Element	Condition	Value/remark	Version	Index
- MAC-hs window size		16		RBS-2866
- MAC-d PDU size Info				RBS-2867
- MAC-d PDU size		336		RBS-2868
- MAC-d PDU size index		0		RBS-2869
- MAC-hs queue Id		1 (for DCCH)		RBS-2870
- MAC-d Flow Identity		1		RBS-2871
- T1		50		RBS-2872
- MAC-hs window size		16		RBS-2873
- MAC-d PDU size Info				RBS-2874
- MAC-d PDU size		148		RBS-2875
- MAC-d PDU size index		0		RBS-2876
- MAC-hs queue Id		3 (for second DTCH)		RBS-2877
- MAC-d Flow Identity		3		RBS-2878
- T1		50		RBS-2879
- MAC-hs window size		16		RBS-2880
- MAC-d PDU size Info				RBS-2881
- MAC-d PDU size		112		RBS-2882
- MAC-d PDU size index		0		RBS-2883
- MAC-d PDU size		144		RBS-2884
- MAC-d PDU size index		1		RBS-2885
- MAC-d PDU size		160		RBS-2886
- MAC-d PDU size index		2		RBS-2887
- MAC-d PDU size		176		RBS-2888
- MAC-d PDU size index		3		RBS-2889
- MAC-d PDU size		192		RBS-2890
- MAC-d PDU size index		4		RBS-2891
- MAC-d PDU size		224		RBS-2892
- MAC-d PDU size index		5		RBS-2893
- MAC-d PDU size		296		RBS-2894
- MAC-d PDU size index		6		RBS-2895
- MAC-d PDU size		344		RBS-2896
- MAC-d PDU size index		7		RBS-2897
- MAC-hs queue to delete list		Not present		RBS-2898
- DCH quality target		Not present		RBS-2899
Added or Reconfigured DL TrCH information	A17, A17a, A17d, A17e, A18 A25a	2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10	Rel-7 Rel-8	RBS-2900 RBS-2901 RBS-2902 RBS-2903
- Downlink transport channel type				
- DL Transport channel identity				

Information Element	Condition	Value/remark	Version	Index
- CHOICE DL parameters		Same as UL		RBS-2904
- Uplink transport channel type		DCH		RBS-2905
- UL TrCH identity		5		RBS-2906
- DCH quality target				RBS-2907
- BLER Quality value		-20 (-2.0)		RBS-2908
- Downlink transport channel type		HS-DSCH		RBS-2909
- DL Transport channel identity		Not Present		RBS-2910
- CHOICE DL parameters		HS-DSCH		RBS-2911
- HARQ Info				RBS-2912
- Number of Processes		Reference to clause 6.10.2.4.5 Parameter Set Implicit		RBS-2913
- CHOICE Memory				RBS-2914
Partitioning				
- CHOICE DL MAC header type		MAC-ehs		RBS-2915
- Added or reconfigured MAC-ehs reordering queue				RBS-2916
- MAC-ehs queue to add or reconfigure list		(one queue)		RBS-2917
- MAC-ehs queue Id		0		RBS-2918
- T1		50		RBS-2919
- MAC-ehs window size		16		RBS-2920
- MAC-ehs queue to delete		Not present		RBS-2921
list				
- DCH quality target		Not present		RBS-2922
Added or Reconfigured DL TrCH information	A17b, A17c	1 TrCH (HS-DSCH for DTCH and DCCH) HS-DSCH		RBS-2923
- Downlink transport channel type		Not Present		RBS-2924
- DL Transport channel identity		HS-DSCH		RBS-2925
- CHOICE DL parameters				RBS-2926
- HARQ Info				RBS-2927
- Number of Processes		Reference to clause 6.10.2.4.5 Parameter Set Implicit		RBS-2928
- CHOICE Memory				RBS-2929
Partitioning				
- CHOICE DL MAC header type		MAC-ehs		RBS-2930
- Added or reconfigured MAC-ehs reordering queue				RBS-2931
- MAC-ehs queue to add or reconfigure list		(two queues)		RBS-2932
- MAC-ehs queue Id		0 (for DTCH)		RBS-2933
- T1		50		RBS-2934
- MAC-ehs window size		16		RBS-2935
- MAC-ehs queue Id		1 (for DCCH)		RBS-2936
- T1		50		RBS-2937
- MAC-ehs window size		16		RBS-2938
- MAC-ehs queue to delete		Not present		RBS-2939
list				
- DCH quality target		Not present		RBS-2940

Information Element	Condition	Value/remark	Version	Index
Added or Reconfigured DL TrCH information	A22	1 TrCH (HS-DSCH for 2 DTCHs and DCCH) HS-DSCH Not Present HS-DSCH	Rel-7	RBS-2941
- Downlink transport channel type				RBS-2942
- DL Transport channel identity				RBS-2943
- CHOICE DL parameters				RBS-2944
- HARQ Info				RBS-2945
- Number of Processes		Reference to clause 6.10.2.4.5 Parameter Set		RBS-2946
- CHOICE Memory		Implicit		RBS-2947
Partitioning				
- CHOICE DL MAC header type		MAC-ehs		RBS-2948
- Added or reconfigured MAC-ehs reordering queue		(three queues)		RBS-2949
- MAC-ehs queue to add or reconfigure list		0 (for first DTCH)		RBS-2950
- MAC-ehs queue Id		50		RBS-2951
- T1		16		RBS-2952
- MAC-ehs window size		1 (for DCCH)		RBS-2953
- MAC-ehs queue Id		50		RBS-2954
- T1		16		RBS-2955
- MAC-ehs window size		3 (for second DTCH)		RBS-2956
- MAC-ehs queue Id		50		RBS-2957
- T1		16		RBS-2958
- MAC-ehs window size		Not present		RBS-2959
- MAC-ehs queue to delete				RBS-2960
list				
- DCH quality target		Not present		RBS-2961
Added or Reconfigured DL TrCH information	A23		Rel-7 Rel-8	RBS-2962
- Downlink transport channel type		HS-DSCH		RBS-2963
- DL Transport channel identity		Not Present		RBS-2964
- CHOICE DL parameters		HS-DSCH		RBS-2965
- HARQ Info				RBS-2966
- Number of Processes		Reference to clause 6.10 Parameter Set		RBS-2967
- CHOICE Memory		Implicit		RBS-2968
Partitioning				
- CHOICE DL MAC header type		MAC-ehs		RBS-2969
- Added or reconfigured MAC-ehs reordering queue		(two queues)		RBS-2970
- MAC-ehs queue to add or reconfigure list		0 (for first DTCH)		RBS-2971
- MAC-ehs queue Id		50		RBS-2972
- T1		16		RBS-2973
- MAC-ehs window size		1 (for second DTCH)		RBS-2974
- MAC-ehs queue Id		50		RBS-2975
- T1				RBS-2976

Information Element	Condition	Value/remark	Version	Index
list - MAC-ehs window size - MAC-ehs queue to delete - DCH quality target		16		RBS-2977
		Not present		RBS-2978
		Not present		RBS-2979
Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory Partitioning - CHOICE DL MAC header type - Added or reconfigured MAC-ehs reordering queue - MAC-ehs queue to add or reconfigure list - MAC-ehs queue Id - T1 - MAC-ehs window size - MAC-ehs queue Id - T1 - MAC-ehs window size - MAC-ehs queue to delete list - DCH quality target	A25	1 TrCH (HS-DSCH for DTCH and DCCH) HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5 Parameter Set Implicit MAC-ehs (two queues) 0 (for DTCH) 50 16 1 (for DCCH) 50 16 Not present Not present	Rel-8	RBS-2980 RBS-2981 RBS-2982 RBS-2983 RBS-2984 RBS-2985 RBS-2986 RBS-2987 RBS-2988 RBS-2989 RBS-2990 RBS-2991 RBS-2992 RBS-2993 RBS-2994 RBS-2995 RBS-2996 RBS-2997
Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory Partitioning - CHOICE DL MAC header type	A28	2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Same as UL DCH 5 -20 (-2.0) HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5 Parameter Set Implicit MAC-ehs	Rel-8	RBS-2998 RBS-2999 RBS-3000 RBS-3001 RBS-3002 RBS-3003 RBS-3004 RBS-3005 RBS-3006 RBS-3007 RBS-3008 RBS-3009 RBS-3010 RBS-3011 RBS-3012

Information Element	Condition	Value/remark	Version	Index
- Added or reconfigured MAC-ehs reordering queue - MAC-ehs queue to add or reconfigure list - MAC-ehs queue Id - T1 - MAC-ehs window size - MAC-ehs queue to delete list - DCH quality target		(one queue) 0 50 32 Not present Not present		RBS-3013 RBS-3014 RBS-3015 RBS-3016 RBS-3017 RBS-3018 RBS-3019
Added or Reconfigured DL TrCH information list - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory <i>Partitioning</i> - CHOICE DL MAC header type - Added or reconfigured MAC-ehs reordering queue - MAC-ehs queue to add or reconfigure list - MAC-ehs queue Id - T1 - MAC-ehs window size - DCH quality target	A24, A29	1 TrCH (HS-DSCH for DTCH) HS-DSCH Not Present HS-DSCH Reference to clause 6.10 Parameter Set Implicit MAC-ehs (one queue) 2 (for DTCH) 50 16 Not present		RBS-3020 RBS-3021 RBS-3022 RBS-3023 RBS-3024 RBS-3025 RBS-3026 RBS-3027 RBS-3028 RBS-3029 RBS-3030 RBS-3031 RBS-3032 RBS-3033
Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate	A26	DCH for DCCH and HS-DSCH for 3 DTCHs DCH 10 Explicit Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set	Rel-8	RBS-3034 RBS-3035 RBS-3036 RBS-3037 RBS-3038 RBS-3039 RBS-3040 RBS-3041 RBS-3042 RBS-3043 RBS-3044 RBS-3045 RBS-3046 RBS-3047 RBS-3048 RBS-3049

Information Element	Condition	Value/remark	Version	Index
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS-3050
- CRC size		Reference to clause 6.10 Parameter Set		RBS-3051
- DCH quality target				RBS-3052
- BLER Quality value		-20 (-2.0)		RBS-3053
- Downlink transport channel type		HS-DSCH		RBS-3054
- DL Transport channel identity		Not Present		RBS-3055
- CHOICE DL parameters		HS-DSCH		RBS-3056
- HARQ Info				RBS-3057
- Number of Processes		Reference to clause 6.10.2.4.5 Parameter Set		RBS-3058
- CHOICE Memory		Implicit		RBS-3059
Partitioning				
- CHOICE DL MAC header type		MAC-ehs		RBS-3060
- Added or reconfigured MAC-ehs reordering queue				RBS-3061
- MAC-ehs queue to add or reconfigure list		(three queues)		RBS-3062
- MAC-ehs queue Id		2 (for first DTCH)		RBS-3063
- T1		50		RBS-3064
- MAC-ehs window size		16		RBS-3065
- MAC-ehs queue Id		3 (for second DTCH)		RBS-3066
- T1		50		RBS-3067
- MAC-ehs window size		16		RBS-3068
- MAC-ehs queue Id		4 (for third DTCH)		RBS-3069
- T1		50		RBS-3070
- MAC-ehs window size		16		RBS-3071
- DCH quality target		Not present		RBS-3072
Added or Reconfigured DL TrCH information	A27, A27a	HS-DSCH for 2 DTCHs and DCCH	Rel-8	RBS-3073
- Downlink transport channel type		HS-DSCH		RBS-3074
- DL Transport channel identity		Not Present		RBS-3075
- CHOICE DL parameters		HS-DSCH		RBS-3076
- HARQ Info				RBS-3077
- Number of Processes		Reference to clause 6.10.2.4.5 Parameter Set		RBS-3078
- CHOICE Memory		Implicit		RBS-3079
Partitioning				
- CHOICE DL MAC header type		MAC-ehs		RBS-3080
- Added or reconfigured MAC-ehs reordering queue				RBS-3081
- MAC-ehs queue to add or reconfigure list		(two queues)		RBS-3082
- MAC-ehs queue Id		0 (for first DTCH)		RBS-3083
- T1		50		RBS-3084
- MAC-ehs window size		16		RBS-3085

Information Element	Condition	Value/remark	Version	Index
- MAC-ehs queue Id		1 (for DCCH)		RBS-3087
- T1		50		RBS-3088
- MAC-ehs window size		16		RBS-3089
- DCH quality target		Not present		RBS-3090
Added or Reconfigured DL TrCH information	A30	1 TrCH (HS-DSCH for DTCH and DCCH) HS-DSCH	Rel-8	RBS-3091
- Downlink transport channel type		Not Present		RBS-3092
- DL Transport channel identity		HS-DSCH		RBS-3093
- CHOICE DL parameters				RBS-3094
- HARQ Info				RBS-3095
- Number of Processes		Reference to clause 6.10.2.4.5 Parameter Set Implicit		RBS-3096
- CHOICE Memory				RBS-3097
<i>Partitioning</i>	- CHOICE DL MAC header type	MAC-ehs		RBS-3098
				RBS-3099
		(two queues)		RBS-3100
		2 (for DTCH)		RBS-3101
		50		RBS-3102
		16		RBS-3103
		3 (for DCCH)		RBS-3104
		50		RBS-3105
		16		RBS-3106
		Not present		RBS-3107
list	- MAC-ehs queue to delete	Not present		RBS-3108
				RBS-3109
		2 TrCh (DCH for DCCH and HS-DSCH for DTCH)	Rel-9	RBS-3109
		DCH		RBS-3110
		10		RBS-3111
		Same as UL		RBS-3112
		DCH		RBS-3113
		5		RBS-3114
				RBS-3115
		HS-DSCH		RBS-3116
<i>Partitioning</i>	- MAC-ehs reordering queue	Not Present		RBS-3117
		HS-DSCH		RBS-3118
				RBS-3119
		Reference to clause 6.10 Parameter Set		RBS-3120
		Implicit		RBS-3121
		MAC-ehs		RBS-3122
				RBS-3123

Information Element	Condition	Value/remark	Version	Index
- MAC-ehs queue to add or reconfigure list - MAC-ehs queue Id - T1 - MAC-ehs window size - DCH quality target		(one queue) 2 (for DTCH) 50 64 Not present		RBS-3124 RBS-3125 RBS-3126 RBS-3127 RBS-3128
Frequency info	A1, A2, A3, A4, A5, A7, A8, 11 , A9, A10 , A12, A13, A14, A15, A16 , A17, A17a, A17b, A17c, A17d, A17e, A18, A19, A19a, A20, A21, A22, A24 , A23 , A25, A25a, A25b, A26, A27, A27a, A28, A30		Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8	RBS-3129 RBS-3130 RBS-3131 RBS-3132 RBS-3133 RBS-3134
- 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.		RBS-3135
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies if frequency is different from the current frequency otherwise set to Not Present.		RBS-3136
Frequency info	A6 , A29 , A31, A32	Not Present	Rel-8 Rel-9	RBS-3137 RBS-3138 RBS-3139
DTX-DRX timing information	A20, A21 , A23		Rel-7 Rel-7 Rel-8	RBS-3140 RBS-3141 RBS-3142
CHOICE <i>timing</i>				
- New timing				RBS-3143
- Enabling Delay		0		RBS-3144
- UE DTX DRX Offset		1 if 2ms TTI selected, otherwise 0		RBS-3145
DTX-DRX Information				RBS-3146
- CHOICE <i>E-DCH TTI length</i>		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.		RBS-3147
- UE DTX cycle 1		8 if 2ms TTI selected, otherwise 10		RBS-3148
- UE DTX cycle 2		16 if 2ms TTI selected, otherwise 20		RBS-3149
- MAC DTX cycle		8 if 2ms TTI selected, otherwise 10		RBS-3150
- Inactivity Threshold for UE DTX cycle 2		32 if 2ms TTI selected, otherwise 8		RBS-3151
- UE DTX long preamble length		4		RBS-3152
- MAC Inactivity Threshold		1 if 2ms TTI selected, otherwise 8		RBS-3153

Information Element	Condition	Value/remark	Version	Index
- CQI DTX Timer		32		RBS-3154
- UE DPCCH burst_1		1		RBS-3155
- UE DPCCH burst_2		1		RBS-3156
DRX Information				RBS-3157
- UE DRX cycle		8 if 2ms TTI selected, otherwise 10		RBS-3158
- Inactivity Threshold for UE DRX cycle		32		RBS-3159
- Inactivity Threshold for UE Grant Monitoring		32 if 2ms TTI selected, otherwise 8		RBS-3160
- UE DRX Grant Monitoring		TRUE		RBS-3161
Uplink DPCCH slot format information		1		RBS-3162
HS-SCCH less information		Not Present		RBS-3163
MIMO parameters	A28		Rel-8	RBS-3164
- MIMO operation		start		RBS-3165
- CHOICE mode		FDD		RBS-3166
- MIMO N_cqi_typeA/M_cqi ratio		1/1		RBS-3167
- MIMO pilot configuration				RBS-3168
- CHOICE Second CPICH pattern		Antenna1 S-CPICH		RBS-3169
- Channelisation code		12		RBS-3170
MIMO parameters	A31, A32		Rel-9	RBS-3171
- MIMO operation		start		RBS-3172
- CHOICE mode		FDD		RBS-3173
- MIMO N_cqi_typeA/M_cqi ratio		1/1		RBS-3174
- MIMO pilot configuration				RBS-3175
- CHOICE Second CPICH pattern		Antenna1 S-CPICH		RBS-3176
- Channelisation code		13		RBS-3177
- Power Offset for S-CPICH for MIMO		0		RBS-3178
- Precoding weight set restriction		True		RBS-3179
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, A18, A19, A19a, A20, A21, A22, A24, A23, A25, A25a, A25b, A26, A27, A27a, A28, A29, A30	33dBm	Rel-5 Rel-6 Rel-7 Rel-7 Rel-8 Rel-8	RBS-3180 RBS-3181 RBS-3182 RBS-3183 RBS-3184 RBS-3185
Maximum allowed UL TX power	A5, A6	Not Present		RBS-3186
CHOICE channel requirement	A1, A2, A3, A4, A7, A8, A11	Uplink DPCH info	Rel-5 and earlier	RBS-3187
- Uplink DPCH power control info				RBS-3188

Information Element	Condition	Value/remark	Version	Index
- DPCCH power offset		-40 (-80dB)		RBS-3189
- PC Preamble		1 frame		RBS-3190
- SRB delay		7 frames		RBS-3191
- Power Control Algorithm		Algorithm1		RBS-3192
- TPC step size		0 (1dB)		RBS-3193
- Δ_{NACK}		Not Present	Rel-5	RBS-3194
- Δ_{NACK}		Not Present	Rel-5	RBS-3195
- Ack-Nack repetition factor		Not Present	Rel-5	RBS-3196
- Scrambling code type		Long		RBS-3197
- Scrambling code number		0 (0 to 16777215)		RBS-3198
- Number of DPDCH		Not Present(1)		RBS-3199
- spreading factor		Reference to clause 6.10 Parameter Set		RBS-3200
- TFCI existence		Reference to clause 6.10 Parameter Set		RBS-3201
- Number of FBI bit		Reference to clause 6.10 Parameter Set		RBS-3202
- Puncturing Limit		Reference to clause 6.10 Parameter Set		RBS-3203
- Number of TPC bits		Not Present	Rel-7	RBS-3204
CHOICE channel requirement	A9, A10 , A17, A17a, A18, A25a, A28	Uplink DPCH info	Rel-5	RBS-3205
- Uplink DPCH power control info			Rel-7	RBS-3206
- DPCCH power offset		-40 (-80dB)		RBS-3209
- PC Preamble		1 frame		RBS-3210
- SRB delay		7 frames		RBS-3211
- Power Control Algorithm		Algorithm1		RBS-3212
- TPC step size		0 (1dB)		RBS-3213
- Δ_{ACK}		3		RBS-3214
- Δ_{NACK}		3		RBS-3215
- Ack-Nack repetition factor		1		RBS-3216
- HARQ_preamble_mode		0	Rel-6	RBS-3217
- Scrambling code type		Long		RBS-3218
- Scrambling code number		0 (0 to 16777215)		RBS-3219
- Number of DPDCH		Not Present(1)		RBS-3220
- spreading factor		Reference to clause 6.10 Parameter Set		RBS-3221
- TFCI existence		Reference to clause 6.10 Parameter Set		RBS-3222
- Number of FBI bit		Reference to clause 6.10 Parameter Set		RBS-3223
- Puncturing Limit		Reference to clause 6.10 Parameter Set		RBS-3224
CHOICE channel requirement	A5,A6	Not Present	Rel-5 and earlier	RBS-3225
Uplink DPCH info	A12		Rel-6	RBS-3226

Information Element	Condition	Value/remark	Version	Index
- Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Δ_{ACK} - Δ_{NACK} - Ack-Nack repetition factor - HARQ_preamble_mode - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit - Number of TPC bits	A19	-40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) 3 3 1 0 Long 0 (0 to 16777215) Not Present(1) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present	Rel-7	RBS-3227 RBS-3228 RBS-3229 RBS-3230 RBS-3231 RBS-3232 RBS-3233 RBS-3234 RBS-3235 RBS-3236 RBS-3237 RBS-3238 RBS-3239 RBS-3240 RBS-3241 RBS-3242 RBS-3243 RBS-3244 RBS-3245
Uplink DPCH info	A13, A14, A15, A16 A17b, A17c, A17d, A17e, A19a, A20, A21, A22 , A23 , A25, A25b, A26, A27, A27a, A30		Rel-6 Rel-7 Rel-7 Rel-8 Rel-8	RBS-3246 RBS-3247 RBS-3248 RBS-3249 RBS-3250 RBS-3251 RBS-3252 RBS-3253 RBS-3254 RBS-3255 RBS-3256 RBS-3257 RBS-3258 RBS-3259 RBS-3260 RBS-3261 RBS-3262 RBS-3263
- Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Δ_{ACK} - Δ_{NACK} - Ack-Nack repetition factor - HARQ_preamble_mode - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor		-40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) 3 3 1 0 Long 0 (0 to 16777215) 0 Not Present		

Information Element	Condition	Value/remark	Version	Index
- TFCI existence		FALSE		RBS-3264
- Number of FBI bit		Not Present		RBS-3265
- Puncturing Limit		Not Present		RBS-3266
- Number of TPC bits		Not Present	Rel-7	RBS-3267
Uplink DPCH info	A24, A29	Not Present	Rel-7	RBS-3268
Uplink DPCH info	A31, A32		Rel-9	RBS-3269
- Uplink DPCH power control info				RBS-3270
- DPCCH power offset		-40 (-80dB)		RBS-3271
- PC Preamble		1 frame		RBS-3272
- SRB delay		7 frames		RBS-3273
- Power Control Algorithm		Algorithm1		RBS-3274
- TPC step size		0 (1dB)		RBS-3275
- Δ ACK		3		RBS-3276
- Δ NACK		3		RBS-3277
- Ack-Nack repetition factor		1		RBS-3278
- HARQ_preamble_mode		0		RBS-3279
- Scrambling code type		Short		RBS-3280
- Scrambling code number		0 (0 to 16777215)		RBS-3281
- Number of DPDCH		Not Present(1)		RBS-3282
- spreading factor		Reference to clause 6.10 Parameter Set		RBS-3283
- TFCI existence		Reference to clause 6.10 Parameter Set		RBS-3284
- Number of FBI bit		Reference to clause 6.10 Parameter Set		RBS-3285
- Puncturing Limit		Reference to clause 6.10 Parameter Set		RBS-3286
- Number of TPC bits		Not Present		RBS-3287
E-DCH info	A12, A13, A14, A15, A16 A17b, A17c, A17d, A17e, A20, A21, A22, A23 , A25, A25b, A26, A27, A30	TRUE 0 100 ms Not Present Not Present 0 9	Rel-6 Rel-7 Rel-7 Rel-8 Rel-8 RBS-3292 RBS-3293 RBS-3294 RBS-3295 Rel-7 Rel-7 RBS-3296 RBS-3297 RBS-3298 RBS-3299 RBS-3300	RBS-3288 RBS-3289 RBS-3290 RBS-3291 RBS-3292 RBS-3293 RBS-3294 RBS-3295 RBS-3296 RBS-3297 RBS-3298 RBS-3299 RBS-3300

Information Element	Condition	Value/remark	Version	Index
- Reference E-TFCIs		2 E-TFCIs		RBS-3301
- Reference E-TFCI		11		RBS-3302
- Reference E-TFCI PO		4		RBS-3303
- Reference E-TFCI		83		RBS-3304
- Reference E-TFCI PO		16		RBS-3305
- Maximum channelisation codes		2sf4		RBS-3306
- PLnon-max		0.84		RBS-3307
- Scheduling Information Configuration				RBS-3308
- Periodicity for Scheduling Info – no grant		Not present		RBS-3309
- Periodicity for Scheduling Info – grant		Not present		RBS-3310
- Power Offset for Scheduling Info		0		RBS-3311
- 3-Index-Step Threshold		Not present		RBS-3312
- 2-Index-Step Threshold		Not present		RBS-3313
- Scheduled Transmission configuration				RBS-3314
- 2ms scheduled transmission grant HARQ process allocation		Not present		RBS-3315
- Serving Grant		Not present		RBS-3316
- UL 16QAM settings		Not Present	Rel-7	RBS-3317
E-DCH info	A19, A19a A27a		Rel-7	RBS-3318
- MAC-es/e reset indicator		TRUE	Rel-8	RBS-3319
- E-DPCCH info				RBS-3320
- E-DPCCH/DPCCH power offset		0		RBS-3322
- Happy bit delay condition		100 ms		RBS-3323
- E-TFC Boost Info		Not Present	Rel-7	RBS-3324
- E-DPDCH power interpolation		Not Present	Rel-7	RBS-3325
- E-DPDCH info				RBS-3326
- E-TFCI table index		0		RBS-3327
- E-DCH minimum set E-TFCI		9		RBS-3328
- Reference E-TFCIs		2 E-TFCIs		RBS-3329
- Reference E-TFCI		11		RBS-3330
- Reference E-TFCI PO		4		RBS-3331
- Reference E-TFCI		83		RBS-3332
- Reference E-TFCI PO		16		RBS-3333
- Maximum channelisation codes		2sf2and2sf4		RBS-3334
- PLnon-max		0.84		RBS-3335
- Scheduling Information Configuration				RBS-3336
- Periodicity for Scheduling Info – no grant		Not present		RBS-3337

Information Element	Condition	Value/remark	Version	Index
- Periodicity for Scheduling Info – grant - Power Offset for Scheduling Info - 3-Index-Step Threshold - 2-Index-Step Threshold - Scheduled Transmission configuration - 2ms scheduled transmission grant HARQ process allocation - Serving Grant -UL 16QAM settings -BetaEd gain E-AGCH table selection		Not present 0 Not present Not present Not present Not present Not present 1	Rel-7	RBS-3338 RBS-3339 RBS-3340 RBS-3341 RBS-3342 RBS-3343 RBS-3344 RBS-3345 RBS-3346
E-DCH info	A24	Not Present	Rel-7	RBS-3347
	A29		Rel-8	RBS-3348
Uplink secondary cell info FDD	A31, A32	Not Present	Rel-9	RBS-3349
CHOICE Mode - Downlink PDSCH information	A1, A2, A3, A4, A5, A6, A7, A8, A11	FDD Not Present	R99 and Rel-4 only	RBS-3350 RBS-3351
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6, A7, A8, A11	Not Present	Rel-5	RBS-3352
Downlink HS-PDSCH Information	A9, A10 A12, A13, A14, A15, A16 A17, A17d, A18, A19, A19a, A20, A21, A22, A24, A25, A25b, A29 - HS-SCCH Info - CHOICE mode - DL Scrambling Code - HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - Measurement Feedback Info - CHOICE mode - POhsdsch - CQI Feedback cycle, k - CQI repetition factor - Δ_{CQI} - CHOICE mode - Downlink 64QAM configured - HS-DSCH TB size table		Rel-5 Rel-6 Rel-7 Rel-8	RBS-3353 RBS-3354 RBS-3355 RBS-3356 RBS-3357 RBS-3358 RBS-3359 RBS-3360 RBS-3361 RBS-3362 RBS-3363 RBS-3364 RBS-3365 RBS-3366 RBS-3367 RBS-3368 RBS-3369 RBS-3370
Downlink HS-PDSCH Information	A25a		Rel-8	RBS-3371 RBS-3372 RBS-3373

Information Element	Condition	Value/remark	Version	Index
- DL Scrambling Code		Not present		RBS-3374
- HS-SCCH Channelisation				RBS-3375
Code Information				
- HS-SCCH Channelisation		7		RBS-3376
Code				
- Measurement Feedback Info				RBS-3377
- CHOICE mode		FDD		RBS-3378
- POhsdsch		6 dB		RBS-3379
- CQI Feedback cycle, k		4 ms		RBS-3380
- CQI repetition factor		1		RBS-3381
- Δ_{CQI}		5 (corresponds to 0dB in relative power offset)		RBS-3382
- CHOICE mode		FDD (no data)		RBS-3383
- Downlink 64QAM configured		Not present	Rel-7	RBS-3384
- HS-DSCH TB size table		Not present	Rel-7	RBS-3385
Downlink HS-PDSCH Information	A17a , A28		Rel-7 Rel-8	RBS-3386 RBS-3387
- HS-SCCH Info				RBS-3388
- CHOICE mode		FDD		RBS-3389
- DL Scrambling Code		Not Present		RBS-3390
- HS-SCCH Channelisation				RBS-3391
Code Information				
- HS-SCCH Channelisation		4		RBS-3392
Code				
- HS-SCCH Channelisation		5		RBS-3393
Code				
- Measurement Feedback Info				RBS-3394
- CHOICE mode		FDD		RBS-3395
- POhsdsch		6 dB		RBS-3396
- CQI Feedback cycle, k		4 ms		RBS-3397
- CQI repetition factor		1		RBS-3398
- Δ_{CQI}		5 (corresponds to 0dB in relative power offset)		RBS-3399
- CHOICE mode		FDD		RBS-3400
- Downlink 64QAM configured		TRUE	Rel-7	RBS-3401
- HS-DSCH TB size table		Not Present	Rel-7	RBS-3402
Downlink HS-PDSCH Information	A17b A23 A26, A27, A27a, A30		Rel-7 Rel-7 Rel-8 Rel-8	RBS-3403 RBS-3404 RBS-3405 RBS-3406
- HS-SCCH Info				
- CHOICE mode		FDD		RBS-3407
- DL Scrambling Code		Not present		RBS-3408
- HS-SCCH Channelisation				RBS-3409
Code Information				
- HS-SCCH Channelisation		7		RBS-3410
Code				

Information Element	Condition	Value/remark	Version	Index
- Measurement Feedback Info				RBS-3411
- CHOICE mode		FDD		RBS-3412
- POhsdsch		6 dB		RBS-3413
- CQI Feedback cycle, k		4 ms		RBS-3414
- CQI repetition factor		1		RBS-3415
- Δ_{CQI}		5 (corresponds to 0dB in relative power offset)		RBS-3416
- CHOICE mode		FDD (no data)		RBS-3417
- Downlink 64QAM configured		Not present	Rel-7	RBS-3418
- HS-DSCH TB size table		Octet Aligned	Rel-7	RBS-3419
Downlink HS-PDSCH Information	A17c, A17e		Rel-7	RBS-3420
- HS-SCCH Info				RBS-3421
- CHOICE mode		FDD		RBS-3422
- DL Scrambling Code		Not Present		RBS-3423
- HS-SCCH Channelisation				RBS-3424
- HS-SCCH Channelisation		6		RBS-3425
- HS-SCCH Channelisation		7		RBS-3426
- Measurement Feedback Info				RBS-3427
- CHOICE mode		FDD		RBS-3428
- Pohsdsch		6 dB		RBS-3429
- CQI Feedback cycle, k		4 ms		RBS-3430
- CQI repetition factor		1		RBS-3431
- Δ_{CQI}		5 (corresponds to 0dB in relative power offset)		RBS-3432
- CHOICE mode		FDD		RBS-3433
- Downlink 64QAM configured		TRUE		RBS-3434
- HS-DSCH TB size table		Not Present		RBS-3435
Downlink HS-PDSCH Information	A31		Rel-9	RBS-3436
- HS-SCCH Info				RBS-3437
- CHOICE mode		FDD		RBS-3438
- DL Scrambling Code		Not Present		RBS-3439
- HS-SCCH Channelisation				RBS-3440
- HS-SCCH Channelisation		6		RBS-3441
- HS-SCCH Channelisation		7		RBS-3442
- Measurement Feedback Info				RBS-3443
- CHOICE mode		FDD		RBS-3444
- Pohsdsch		8 dB		RBS-3445
- CQI Feedback cycle, k		8 ms		RBS-3446
- CQI repetition factor		1		RBS-3447

Information Element	Condition	Value/remark	Version	Index
- Δ_{CQI}		4 (corresponds to 0dB in relative power offset) FDD		RBS-3448
- CHOICE mode		Not Present		RBS-3449
- Downlink 64QAM configured		Not Present		RBS-3450
- HS-DSCH TB size table		Not Present		RBS-3451
Downlink HS-PDSCH Information	A32		Rel-9	RBS-3452
- HS-SCCH Info				RBS-3453
- CHOICE mode		FDD		RBS-3454
- DL Scrambling Code		Not Present		RBS-3455
- HS-SCCH Channelisation Code Information				RBS-3456
- HS-SCCH Channelisation Code		6		RBS-3457
- HS-SCCH Channelisation Code		7		RBS-3458
- Measurement Feedback Info				RBS-3459
- CHOICE mode		FDD		RBS-3460
- Pohsdsch		8 dB		RBS-3461
- CQI Feedback cycle, k		8 ms		RBS-3462
- CQI repetition factor		1		RBS-3463
- Δ_{CQI}		4 (corresponds to 0dB in relative power offset) FDD		RBS-3464
- CHOICE mode		TRUE		RBS-3465
- Downlink 64QAM configured		Not Present		RBS-3466
- HS-DSCH TB size table		Not Present		RBS-3467
Downlink information common for all radio links	A1, A2, A3, A11			RBS-3468
- Downlink DPCH info common for all RL				RBS-3469
- Timing indicator		Maintain		RBS-3470
- CFN-targetSFN frame offset		Not Present		RBS-3471
- Downlink DPCH power control information				RBS-3472
- DPC mode		0 (single)		RBS-3473
- CHOICE mode		FDD		RBS-3474
- Power offset $P_{Pilot-DPDCH}$		0		RBS-3475
- DL rate matching restriction information		Not Present		RBS-3476
- Spreading factor		Reference to clause 6.10 Parameter Set		RBS-3477
- Fixed or Flexible Position		Reference to clause 6.10 Parameter Set		RBS-3478
- TFCI existence		Reference to clause 6.10 Parameter Set		RBS-3479
- CHOICE SF		Reference to clause 6.10 Parameter Set		RBS-3480
- CHOICE mode		FDD		RBS-3481
- DPCH compressed mode info		Not Present		RBS-3482
- TX Diversity mode		None		RBS-3483
- SSDT information		Not Present	R99 and Rel-4 only	RBS-3484

Information Element	Condition	Value/remark	Version	Index
- Default DPCH Offset Value		Not Present		RBS-3485
Downlink information common for all radio links	A9 A12, A13, A15 A17, A17a, A17d, A17e, A18, A19, A19a, A25a, A25b, A26, A28	Maintain Not Present 0 (single) FDD 0 Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set FDD Not Present None Not Present Not Present	Rel-5 Rel-6 Rel-7 Rel-8	RBS-3486 RBS-3487 RBS-3488 RBS-3489 RBS-3490 RBS-3491 RBS-3492 RBS-3493 RBS-3494 RBS-3495 RBS-3496 RBS-3497 RBS-3498 RBS-3499 RBS-3500 RBS-3501 RBS-3502 RBS-3503 RBS-3504 RBS-3505 RBS-3506
Downlink information common for all radio links	A4,A7,A8	Initialize Not Present 0 (single) FDD 0 Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set FDD		RBS-3507 RBS-3508 RBS-3509 RBS-3510 RBS-3511 RBS-3512 RBS-3513 RBS-3514 RBS-3515 RBS-3516 RBS-3517 RBS-3518 RBS-3519 RBS-3520

Information Element	Condition	Value/remark	Version	Index
- DPCH compressed mode info		Not Present		RBS-3521
- TX Diversity mode		None		RBS-3522
- SSDT information		Not Present	R99 and Rel-4 only	RBS-3523
- Default DPCH Offset Value		Arbitrary set to value 0..306688 by step of 512		RBS-3524
Downlink information common for all radio links	A10		Rel-5	RBS-3525
- Downlink DPCH info common for all RL				RBS-3526
- Timing indicator		Initialize		RBS-3527
- CFN-targetSFN frame offset		Not Present		RBS-3528
- Downlink DPCH power control information				RBS-3529
- DPC mode		0 (single)		RBS-3530
- CHOICE mode		FDD		RBS-3531
- Power offset PPilot-DPDCH		0		RBS-3532
- DL rate matching restriction information		Not Present		RBS-3533
- Spreading factor		Reference to clause 6.10 Parameter Set		RBS-3534
- Fixed or Flexible Position		Reference to clause 6.10 Parameter Set		RBS-3535
- TFCI existence		Reference to clause 6.10 Parameter Set		RBS-3536
- CHOICE SF		Reference to clause 6.10 Parameter Set		RBS-3537
- CHOICE mode		FDD		RBS-3538
- DPCH compressed mode info		Not Present		RBS-3539
- TX Diversity mode		None		RBS-3540
- Default DPCH Offset Value		Arbitrary set to value 0..306688 by step of 512		RBS-3541
- MAC-hs reset indicator		Not Present		RBS-3542
Downlink information common for all radio links	A14, A16		Rel-6	RBS-3543
- Downlink F-DPCH info common for all RL	A17b, A17c, A20, A21, A22, A23, A25, A27, A27a, A30		Rel-7	RBS-3544
- Timing Indication		Maintain	Rel-7	RBS-3545
- Timing maintained		FALSE	Rel-8	RBS-3546
Synchronization indicator			Rel-8	RBS-3547
- Downlink F-DPCH power control information				RBS-3548
- DPC mode		0 (single)		RBS-3549
- TPC command error rate target		0.04		RBS-3550
- CHOICE mode		FDD		RBS-3551
- DPCH compressed mode info		Not Present		RBS-3552
- TX Diversity mode		None		RBS-3553
- Default DPCH Offset Value		Not Present		RBS-3554

Information Element	Condition	Value/remark	Version	Index
- MAC-hs reset indicator		Not Present		RBS-3557
Downlink information common for all radio links	A5,A6	Not Present	Rel-7	RBS-3558
	A24	Not Present		RBS-3559
	A29			RBS-3560
Downlink information for each radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH	A1, A2, A3, A4, A7, A8, A11	FDD	R99 and Rel-4 only R99 and Rel-4 only	RBS-3561
		Ref. to the Default setting in clause 6.1 (FDD) Not Present		RBS-3562
		Not Present		RBS-3563
		Ref. to the Default setting in clause 6.1 (FDD) Not Present		RBS-3564
		Not Present		RBS-3565
		FALSE		RBS-3566
		Primary CPICH may be used		RBS-3567
		Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present		RBS-3568
		1		RBS-3569
		Reference to clause 6.10 Parameter Set		RBS-3570
		0		RBS-3571
		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")		RBS-3572
		Set to value Default2: OMIT (otherwise)		RBS-3573
		0		RBS-3574
		Not Present		RBS-3575
		Not Present		RBS-3576
		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")		RBS-3577
		Set to value Default2: OMIT (otherwise)		RBS-3578
		0		RBS-3579
		Not Present	R99 and Rel-4 only	RBS-3580
		Not Present		RBS-3581
Downlink information for each radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping	A5	FDD	R99 and Rel-4 only R99 and Rel-4 only R99 and Rel-4 only	RBS-3582
		Ref. to the Default setting in clause 6.1 (FDD) Not Present		RBS-3583
		Not Present		RBS-3584
		Ref. to the Default setting in clause 6.1 (FDD) Not Present		RBS-3585
		Not Present		RBS-3586
		Not Present		RBS-3587
		Not Present		RBS-3588

Information Element	Condition	Value/remark	Version	Index
- Serving HS-DSCH radio link indicator - Downlink DPCH info for each RL - SCCPCH information for FACH		FALSE Not present Not Present	Rel-5 R99 and Rel-4 only	RBS-3589 RBS-3590 RBS-3591
Downlink information for each radio link list	A9, A10 , A17, A18		Rel-5 Rel-7	RBS-3592 RBS-3593
- Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change		FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present TRUE FALSE Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present 1 Reference to clause 6.10 Parameter Set 0 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") Set to value Default2: OMIT (otherwise) 0 Not Present Not Present Not Present Not Present Not Present Not Present	R99 and Rel-4 only R99 and Rel-4 only Rel-6	RBS-3594 RBS-3596 RBS-3597 RBS-3598 RBS-3599 RBS-3600 RBS-3601 RBS-3602 RBS-3603 RBS-3604 RBS-3605 RBS-3606 RBS-3607 RBS-3608 RBS-3609 RBS-3610 RBS-3611 RBS-3612 RBS-3613 Rel-6 Rel-6 Rel-6 R99 and Rel-4 only
Downlink information for each radio link list	A17a, A17d, A17e A25a, A28		Rel-7 Rel-8	RBS-3618 RBS-3619 RBS-3620
- Downlink information for each radio link				

Information Element	Condition	Value/remark	Version	Index
- Choice mode		FDD		RBS-3621
- Primary CPICH info				RBS-3622
- Primary scrambling code		Ref. to the Default setting in clause 6.1 (FDD) TRUE		RBS-3623
- Serving HS-DSCH radio link indicator		FALSE	Rel-6	RBS-3624
- Serving E-DCH radio link indicator				RBS-3625
- Downlink DPCH info for each RL				RBS-3626
- Primary CPICH usage for channel estimation		Primary CPICH may be used		RBS-3627
- DPCH frame offset		Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present		RBS-3628
- Secondary CPICH info				RBS-3629
- DL channelisation code				RBS-3630
- Secondary scrambling code		Not Present		RBS-3631
- Spreading factor		Reference to clause 6.10 Parameter Set		RBS-3632
- Code number		13		RBS-3633
- Scrambling code change		Not Present		RBS-3634
- TPC combination index		0		RBS-3635
- Closed loop timing adjustment mode		Not Present		RBS-3636
- E-AGCH Info		Not Present	Rel-6	RBS-3637
- CHOICE E-HICH Information		Not Present	Rel-6	RBS-3638
- CHOICE E-RGCH Information		Not Present	Rel-6	RBS-3639
Downlink information for each radio link list	A12, A13, A15 A19, A19a A26		Rel-6 Rel-7 Rel-8	RBS-3640 RBS-3641 RBS-3642
- Downlink information for each radio link		FDD		RBS-3643
- Choice mode				RBS-3644
- Primary CPICH info				RBS-3645
- Primary scrambling code		Ref. to the Default setting in clause 6.1 (FDD) TRUE		RBS-3646
- Serving HS-DSCH radio link indicator		TRUE		RBS-3647
- Serving E-DCH radio link indicator				RBS-3648
- Downlink DPCH info for each RL				RBS-3649
- Primary CPICH usage for channel estimation		Primary CPICH may be used		RBS-3650
- DPCH frame offset		Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present		RBS-3651
- Secondary CPICH info				RBS-3652
- DL channelisation code				RBS-3653
- Secondary scrambling code		1		RBS-3654
- Spreading factor		Reference to clause 6.10 Parameter Set		RBS-3655
- Code number		0		RBS-3656

Information Element	Condition	Value/remark	Version	Index
- Scrambling code change		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-3657
- TPC combination index		Set to value: OMIT (otherwise) 0	Default2	RBS-3658
- Closed loop timing adjustment mode		Not Present		RBS-3659
- E-AGCH Info				RBS-3660
- E-AGCH Channelisation Code		10		RBS-3661
- CHOICE E-HICH Information				RBS-3662
- E-HICH Information				RBS-3663
- Channelisation code		4		RBS-3664
- Signature sequence		1		RBS-3665
- CHOICE E-RGCH Information				RBS-3666
- E-RGCH Information				RBS-3667
- Signature Sequence		0		RBS-3668
- RG combination index		0		RBS-3669
Downlink information for each radio link list	A14, A16		Rel-6	RBS-3670
- Downlink information for each radio link				RBS-3671
- Choice mode		FDD		RBS-3672
- Primary CPICH info				RBS-3673
- Primary scrambling code		Ref. to the Default setting in clause 6.1 (FDD) TRUE		RBS-3674
- Serving HS-DSCH radio link indicator		TRUE		RBS-3675
- Serving E-DCH radio link indicator				RBS-3676
- Downlink DPCH info for each RL		Not Present		RBS-3677
- Downlink F-DPCH info for each RL				RBS-3678
- Primary CPICH usage for channel estimation		Primary CPICH may be used		RBS-3679
- F-DPCH frame offset		Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 3 if UE supports enhanced F-DPCH, otherwise Not Present		RBS-3680
- F-DPCH slot format		Not Present	Rel-7	RBS-3681
- Secondary CPICH info				RBS-3682
- Secondary scrambling code		Not Present		RBS-3683
- Code number		12		RBS-3684
- TPC combination index		0		RBS-3685
- E-AGCH Info				RBS-3686
- E-AGCH Channelisation Code		10		RBS-3687
- CHOICE E-HICH Information				RBS-3688
- E-HICH Information				RBS-3689

Information Element	Condition	Value/remark	Version	Index
- Channelisation code		4		RBS-3690
- Signature sequence		1		RBS-3691
- CHOICE E-RGCH Information		Not Present		RBS-3692
Downlink information for each radio link list	A17b, A17c		Rel-7	RBS-3693
- Downlink information for each radio link				RBS-3694
- Choice mode		FDD		RBS-3695
- Primary CPICH info				RBS-3696
- Primary scrambling code		Ref. to the Default setting in clause 6.1 (FDD) TRUE		RBS-3697
- Serving HS-DSCH radio link indicator				RBS-3698
- Serving E-DCH radio link indicator		TRUE		RBS-3699
- Downlink DPCH info for each RL		Not Present		RBS-3700
- Downlink F-DPCH info for each RL				RBS-3701
- Primary CPICH usage for channel estimation		Primary CPICH may be used		RBS-3702
- F-DPCH frame offset		Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 3 if UE supports enhanced F-DPCH, otherwise Not Present		RBS-3703
- F-DPCH slot format				RBS-3704
- Secondary CPICH info		Not Present		RBS-3705
- Secondary scrambling code		Not Present		RBS-3706
- Code number		11		RBS-3707
- TPC combination index		0		RBS-3708
- E-AGCH Info				RBS-3709
- E-AGCH Channelisation Code		10		RBS-3710
- CHOICE E-HICH Information				RBS-3711
- E-HICH Information				RBS-3712
- Channelisation code		4		RBS-3713
- Signature sequence		1		RBS-3714
- CHOICE E-RGCH Information		Not Present		RBS-3715
				RBS-3716
Downlink information for each radio link list	A30		Rel-8	RBS-3717
- Downlink information for each radio link				RBS-3718
- Choice mode		FDD		RBS-3719
- Primary CPICH info				RBS-3720
- Primary scrambling code		Ref. to the Default setting in clause 6.1 (FDD) TRUE		RBS-3721
- Serving HS-DSCH radio link indicator				RBS-3722
- Serving E-DCH radio link indicator		TRUE		RBS-3723
- Downlink DPCH info for each RL		Not Present		RBS-3724
- Downlink F-DPCH info for each RL				RBS-3725

Information Element	Condition	Value/remark	Version	Index
- Primary CPICH usage for channel estimation - F-DPCH frame offset - F-DPCH slot format - Secondary CPICH info - Secondary scrambling code - Code number - TPC combination index - E-AGCH Info - E-AGCH Channelisation Code - CHOICE E-HICH Information - E-HICH Information - Channelisation code - Signature sequence - CHOICE E-RGCH Information		Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 3 if UE supports enhanced F-DPCH, otherwise Not Present Not Present Not Present 12 0 11 4 10 Not Present		RBS-3726 RBS-3727 RBS-3728 RBS-3729 RBS-3730 RBS-3731 RBS-3732 RBS-3733 RBS-3734 RBS-3735 RBS-3736 RBS-3737 RBS-3738 RBS-3739
Downlink information for each radio link list	A20, A21, , A23 , A25 , A27, A27a , A31, A32		Rel-7 Rel-7 Rel-8 Rel-8 Rel-8 Rel-9	RBS-3740 RBS-3741 RBS-3742 RBS-3743 RBS-3744
- Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Downlink F-DPCH info for each RL - Primary CPICH usage for channel estimation - F-DPCH frame offset - F-DPCH slot format - Secondary CPICH info - Secondary scrambling code - Code number - TPC combination index - E-AGCH Info - E-AGCH Channelisation Code		FDD Ref. to the Default setting in clause 6.1 (FDD) TRUE TRUE Not Present Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 3 if UE supports enhanced F-DPCH, otherwise Not Present Not Present Not Present 12 0 10	Rel-7	RBS-3745 RBS-3746 RBS-3747 RBS-3748 RBS-3749 RBS-3750 RBS-3751 RBS-3752 RBS-3753 RBS-3754 RBS-3755 RBS-3756 RBS-3757 RBS-3758 RBS-3759 RBS-3760 RBS-3761

Information Element	Condition	Value/remark	Version	Index
- CHOICE E-HICH Information - E-HICH Information - Channelisation code - Signature sequence		4 1		RBS-3762 RBS-3763 RBS-3764 RBS-3765
- CHOICE E-RGCH Information - E-RGCH Information - Signature Sequence - RG combination index		0 0		RBS-3766 RBS-3767 RBS-3768 RBS-3769
Downlink information for each radio link list	A22		Rel-7	RBS-3770
- Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Downlink F-DPCH info for each RL - Primary CPICH usage for channel estimation - F-DPCH frame offset - F-DPCH slot format - Secondary CPICH info - Secondary scrambling code - Code number - TPC combination index		FDD Ref. to the Default setting in clause 6.1 (FDD) TRUE TRUE Not Present Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 3 if UE supports enhanced F-DPCH, otherwise Not Present Not Present Not Present	Rel-7	RBS-3771 RBS-3772 RBS-3773 RBS-3774 RBS-3775 RBS-3776 RBS-3777 RBS-3778 RBS-3779 RBS-3780 RBS-3781 RBS-3782 RBS-3783 RBS-3784 RBS-3785 RBS-3786 RBS-3787 RBS-3788 RBS-3789 RBS-3790 RBS-3791 RBS-3792 RBS-3793
- E-AGCH Info - E-AGCH Channelisation Code		10		
- CHOICE E-HICH Information - E-HICH Information - Channelisation code - Signature sequence		4 1		
- CHOICE E-RGCH Information - E-RGCH Information		Not present		
Downlink information for each radio link list	A6, A24 A29	Not Present		RBS-3794 RBS-3795
Downlink secondary cell info FDD	A25, A25a, A25b	New configuration '1010 1010 1010 1010'		RBS-3796 RBS-3797 RBS-3798

Information Element	Condition	Value/remark	Version	Index
- Downlink 64QAM configured		Not Present		RBS-3799
- HS-DSCH TB size table		Not Present		RBS-3800
- Primary CPICH info				RBS-3801
- Primary scrambling code		Ref. to the Default setting in clause 6.1 (FDD)		RBS-3802
- DL Scrambling Code		Not Present		RBS-3803
- HS-SCCH Channelisation Code Information				RBS-3804
- HS-SCCH Channelisation Code		7		RBS-3805
- Measurement Power Offset		6 dB		RBS-3806
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies		RBS-3807
-Secondary cell MIMO parameters		Not Present	Rel 9	RBS-3808
Downlink secondary cell info FDD	A31			RBS-3809
- CHOICE Configuration info		New configuration		RBS-3810
- New H-RNTI		'1010 1010 1010 1010'		RBS-3811
- Downlink 64QAM configured		Not Present		RBS-3812
- HS-DSCH TB size table		Not Present		RBS-3813
- Primary CPICH info				RBS-3814
- Primary scrambling code		Ref. to the Default setting in clause 6.1 (FDD)		RBS-3815
- DL Scrambling Code		Not Present		RBS-3816
- HS-SCCH Channelisation Code Information				RBS-3817
- HS-SCCH Channelisation Code		7		RBS-3818
- Measurement Power Offset		6 dB		RBS-3819
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies		RBS-3820
-Secondary cell MIMO parameters			Rel 9	RBS-3821
- CHOICE Configuration info				RBS-3822
- Continue				RBS-3823
- New configuration				RBS-3824
- MIMO N_cqi_typeA/M_cqi ratio		1/1		RBS-3825
- MIMO pilot configuration				RBS-3826
-CHOICE Second CPICH pattern				RBS-3827
-Antenna2 P-CPICH		No data		RBS-3828
-Antenna1 S-CPICH				RBS-3829
-Channelisation code		15		RBS-3830
-Power Offset for S-CPICH		0		RBS-3831
for MIMO				
Downlink secondary cell info FDD	A32		Rel-9	RBS-3832
- CHOICE Configuration info		New configuration		RBS-3833
- New H-RNTI		'1010 1010 1010 1010'		RBS-3834
- Downlink 64QAM configured		TRUE		RBS-3835

Information Element	Condition	Value/remark	Version	Index
- HS-DSCH TB size table		Not Present		RBS-3836
- Primary CPICH info				RBS-3837
- Primary scrambling code		Ref. to the Default setting in clause 6.1 (FDD)		RBS-3838
- DL Scrambling Code		Not Present		RBS-3839
- HS-SCCH Channelisation Code				RBS-3840
Information				
- HS-SCCH Channelisation Code		7		RBS-3841
- Measurement Power Offset		6 dB		RBS-3842
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies		RBS-3843
- Secondary cell MIMO parameters			Rel 9	RBS-3844
- CHOICE Configuration info				RBS-3845
- Continue				RBS-3846
- New configuration				RBS-3847
- MIMO N_cqi_typeA/M_cqi ratio		1/1		RBS-3848
- MIMO pilot configuration				RBS-3849
-CHOICE Second CPICH pattern				RBS-3850
-Antenna2 P-CPICH		No data		RBS-3851
-Antenna1 S-CPICH				RBS-3852
-Channelisation code		15		RBS-3853
-Power Offset for S-CPICH		0		RBS-3854
for MIMO				
MBMS PL Service Restriction Information	A1, A2, A3, A4, A5, A6, A7, A8 A9, A10 A12, A13, A14, A15, A16 A17, A17a, A17b, A17c, A18, A19, A19a, A20, A21, A22, A23, A24 , A25, A25a, A26, A27, A27a, A28, A29, A30, A31, A32	Not Present		RBS-3855
			Rel-5	RBS-3856
			Rel-6	RBS-3857
			Rel-7	RBS-3858
			Rel-7	RBS-3859
			Rel-8	RBS-3860
			Rel-8	RBS-3861
			Rel-9	RBS-3861

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
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
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 Rel-8 (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
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
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

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
- RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - MBMS Service Identity - MBMS Service ID - MBMS Session identity - MBMS Session ID - 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 - CHOICE Downlink RLC mode - DL UM RLC LI size - DL Reception Window Size - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - 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 - Logical channel identity Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format	B5, B2	(UM DTCH for PS domain DL only) 1111111B For Selected Service and Set to same as Enhanced NSAPI received in Service Request (10000000B to 11111110B) for Multicast service. The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 21 Present for Selected Service only MBMS Service ID of the service UE has selected Ongoing Session ID FALSE Not present Absent Not present RLC info Not Present UM RLC 7 Not Present 1 RBMuxOptions Not Present Not Present 1 DCH 7 Not Present Not Present 5 DCH reconfigured DCH 5 Dedicated transport channels Reference to clause 6. 11.1b Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6. 11.1b Parameter Set All

Information Element	Condition	Value/remark
information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute		Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - CRC size Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value 	B1, B2	<p>Reference to clause 6. 11.1b Parameter Set 2 TrCHs(DCH for DCCH and 1 DCH for DTCH) DCH 10 Same as UL DCH 5 -20 (-2.0) DCH 7 Explicit Dedicated transport channel</p> <p>Reference to clause 6. 11.1b Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6. 11.1b Parameter Set only including TF0 All</p> <p>Reference to clause 6. 11.1b Parameter Set Reference to clause 6. 11.1b Parameter Set</p>
<ul style="list-style-type: none"> Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value 	B3, B4	<p>-20 (-2.0) 3 TrCHs(DCH for DCCH and 2 DCH for DTCH's) DCH 10 Same as UL DCH 5 -20 (-2.0) DCH 6 Same as UL DCH 1 -20 (-2.0) DCH 7 Explicit Dedicated transport channel</p> <p>Reference to clause 6. 11.1a Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6. 11.1a Parameter Set All</p> <p>Reference to clause 6. 11.1a Parameter Set Reference to clause 6. 11.1a Parameter Set</p>
All other IEs	B1	Reference to clause 6. 11.1a Parameter Set 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 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. 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	
Uplink integrity protection activation info CHOICE mode START	Not checked. FDD Not checked (if ciphering is OFF), check the presence if ciphering is ON.
Deferred measurement control reading COUNT-C activation time	Not present for Rel-7 or later, otherwise Not checked 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 Uplink counter synchronization info	Not checked 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 Radio bearers for which reconfiguration would have succeeded	Checked to see if it meets test requirement Not checked

Contents of RADIO BEARER RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark	Version	Index
Message Type RRC transaction identifier	A1,A2,A3,A4,A5,A6	Arbitrarily selects an integer between 0 and 3		RBC-001 RBC-002
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.		RBC-003 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+CFN-(CFN MOD 8 + 8))MOD 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". (UM DCCH for RRC) 1		RBC-028
- RB information to reconfigure		Not Present		RBC-029
- RB identity		Not Present		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) 2		RBC-036
- RB identity		Not Present		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) 3		RBC-043
- RB identity		Not Present		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) 4		RBC-050
- RB identity		Not Present		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 identity		1	RBC-116	
- PDCP info		Not Present	RBC-117	
- PDCP SN info		Not Present	RBC-118	
- RLC info		Not Present	RBC-119	
- RB mapping info		Not Present	RBC-120	
- RB stop/continue		Not Present	RBC-121	
- RB information to reconfigure		(AM DCCH for RRC)	RBC-122	
- RB identity		2	RBC-123	
- PDCP info		Not Present	RBC-124	
- PDCP SN info		Not Present	RBC-125	
- RLC info		Not Present	RBC-126	
- RB mapping info		Not Present	RBC-127	
- RB stop/continue		Not Present	RBC-128	
- RB information to reconfigure		(AM DCCH for NAS_DT High priority)	RBC-129	
- RB identity		3	RBC-130	
- PDCP info		Not Present	RBC-131	
- PDCP SN info		Not Present	RBC-132	
- RLC info		Not Present	RBC-133	
- RB mapping info		Not Present	RBC-134	
- RB stop/continue		Not Present	RBC-135	
- RB information to reconfigure		(AM DCCH for NAS_DT Low priority)	RBC-136	
- RB identity		4	RBC-137	
- PDCP info		Not Present	RBC-138	
- PDCP SN info		Not Present	RBC-139	
- RLC info		Not Present	RBC-140	
- RB mapping info		Not Present	RBC-141	
- RB stop/continue		Not Present	RBC-142	
- RB information to reconfigure		(AM DTCH)	RBC-143	
- RB identity		20	RBC-144	
- PDCP info		Not Present	RBC-145	
- PDCP SN info		Not Present	RBC-146	
- RLC info		Not Present	RBC-147	
- RB mapping info		Not Present	RBC-148	
- RB stop/continue		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 - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size	A3, A4	Not Present FDD Not Present Normal Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set.		RBC-154 RBC-155 RBC-156 RBC-157 RBC-158 RBC-159 RBC-160 RBC-161 RBC-162 RBC-163
- CTFC information - CTFC - Power offset information - CHOICE Gain Factors - Gain factor β_c		This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set Reference to clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (equal or higher than 64 kbps) when HSDPA is not configured 9 (equal or higher than 64 kbps and		RBC-164 RBC-165 RBC-166 RBC-167 RBC-168

Information Element	Condition	Value/remark	Version	Index
- Gain factor β_d		below 384 kbps) when HSDPA is also configured 6 (equal or higher than 384 kbps) when HSDPA is also configured (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (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) DCH 5 Dedicated transport channels		RBC-175
- Uplink transport channel type				RBC-176
- UL Transport channel identity				RBC-177
- TFS				RBC-178
- CHOICE Transport channel type				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
information				
- 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 - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present	RBC-219 RBC-220 RBC-221 RBC-222 RBC-223 RBC-224	RBC-225 RBC-226
CHOICE mode	A1,A2,A3,A4,A5,A6	Not Present	RBC-225	RBC-226
DL Transport channel information common for all transport channel	A1, A2, A5, A6	Not Present	RBC-227	
DL Transport channel information common for all transport channel	A3,A4		RBC-227	
- SCCPCH TFCS - CHOICE mode - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI Signalling - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size		Not Present FDD Explicit Normal Complete reconfiguration 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 Reference to clause 6.10.2.4 Parameter Set	RBC-228 RBC-229 RBC-230 RBC-231 RBC-232 RBC-233 RBC-234 RBC-235 RBC-236	RBC-237
- CTFC information			RBC-237	
- CTFC			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) DCH 10 Same as UL DCH 5	RBC-242	
- Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format		Not Present DCH 6 Explicit Dedicated transport channel	RBC-243 RBC-244 RBC-245 RBC-246 RBC-247 RBC-248 RBC-249 RBC-250 RBC-251 RBC-252 RBC-253 RBC-254 RBC-255	
information		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)	RBC-256 RBC-257 RBC-258	
- RLC Size - Number of TBs and TTI List - Dynamic transport format		Not Present	RBC-259	
information		Reference to clause 6.10 Parameter Set	RBC-260	
- Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information		Reference to clause 6.10 Parameter Set	RBC-261	
- Transmission time interval		Reference to clause 6.10 Parameter Set	RBC-262	
- Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set -20 (-2.0)	RBC-263 RBC-264 RBC-265 RBC-266 RBC-267 RBC-268	RBC-269
Added or Reconfigured DL TrCH information	A3	DCH 6	RBC-270 RBC-271	
- Downlink transport channel type - DL Transport channel identity				

Information Element	Condition	Value/remark	Version	Index
- CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value		Explicit Dedicated transport channel Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBC-272 RBC-273 RBC-274 RBC-275 RBC-276 RBC-277 RBC-278 RBC-279 RBC-280 RBC-281
Frequency info - UARFCN uplink (Nu)	A1,A2,A3,A4,A5	Not Present Reference to clause 6.10 Parameter Set -20 (-2.0) Not present Absence of this IE is equivalent to applying the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] Reference to clause 5.1 Test frequencies		RBC-282 RBC-283 RBC-284 RBC-285 RBC-286 RBC-287 RBC-288 RBC-289 RBC-290
- UARFCN downlink (Nd)	A6	Not Present		RBC-291
Frequency info DTX-DRX timing information DTX-DRX Information HS-SCCH less Information MIMO parameters Maximum allowed UL TX power CHOICE channel requirement -Uplink DPCH power control info	A1,A2,A3,A4,A5,A6 A1, A2, A3, A4	Not Present Not Present Not Present Not Present Not Present 33dBm Uplink DPCH info -40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) Not Present Not Present Not Present Long 0 (0 to 16777215) Not Present(1) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present Reference to clause 6.10 Parameter Set Not Present Not Present FDD Not Present	Rel-7 Rel-7 Rel-7 Rel-7 Rel-7 Rel-7	RBC-292 RBC-293 RBC-294 RBC-295 RBC-296 RBC-297 RBC-298 RBC-299 RBC-300 RBC-301 RBC-302 RBC-303 RBC-304 RBC-305 RBC-306 RBC-307 RBC-308 RBC-309 RBC-310 RBC-311 RBC-312 RBC-313 RBC-314 RBC-315 RBC-316 RBC-317 RBC-318 RBC-319
CHOICE channel requirement E-DCH Info CHOICE Mode - Downlink PDSCH information	A5, A6 A1,A2,A3,A4,A5,A6	Not Present Not Present Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present Reference to clause 6.10 Parameter Set Not Present Not Present Not Present R99 and Rel-4 only	Rel-7 Rel-6	RBC-310 RBC-311 RBC-312 RBC-313 RBC-314 RBC-315 RBC-316 RBC-317 RBC-318 RBC-319
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6	Not Present	Rel-5	RBC-320
Downlink information common for all radio links Downlink information common for all radio links	A5, A6 A1, A2, A3	Not Present		RBC-321 RBC-322
- Downlink DPCH info common for all RL - Timing indicator		Maintain		RBC-323 RBC-324

Information Element	Condition	Value/remark	Version	Index
- CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{\text{Pilot-DPDCH}}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value - MAC-hs reset indicator		Not Present 0 (single) FDD 0 Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present None Not Present Not Present Not Present	RBC-325 RBC-326 RBC-327 RBC-328 RBC-329 RBC-330 RBC-331 RBC-332 RBC-333 RBC-334 RBC-335 RBC-336 RBC-337 RBC-338 RBC-339 RBC-340 RBC-341	
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{\text{Pilot-DPDCH}}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value - MAC-hs reset indicator	A4	Initialize Not Present 0 (single) FDD 0 Not Present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present None Not Present Present Arbitrary set to value 0..306688 by step of 512 Not Present	R99 and Rel-4 only Rel-5	RBC-342 RBC-343 RBC-344 RBC-345 RBC-346 RBC-347 RBC-348 RBC-349 RBC-350 RBC-351 RBC-352 RBC-353 RBC-354 RBC-355 RBC-356 RBC-357 RBC-358 RBC-359
Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code	A1, A2, A3	FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present FALSE FALSE Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present	R99 and Rel-4 only R99 and Rel-4 only Rel-5 Rel-6 RBC-367 RBC-368 RBC-369 RBC-370 RBC-371 RBC-372 RBC-373 RBC-374	RBC-360 RBC-361 RBC-362 RBC-363 RBC-364 RBC-365 RBC-366 RBC-367 RBC-368 RBC-369 RBC-370 RBC-371 RBC-372 RBC-373 RBC-374
		2		

Information Element	Condition	Value/remark	Version	Index
- Spreading factor - Code number - Scrambling code change		Reference to clause 6.10 Parameter Set 0 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") Set to value Default2: OMIT (otherwise) 0 Not Present		RBC-375 RBC-376 RBC-377
- TPC combination index - SSDT Cell Identity			R99 and Rel-4 only	RBC-378 RBC-379
- Closed loop timing adjustment mode - E-AGCH Info - E-HICH Information - E-RGCH Information - SCCPCH information for FACH		Not Present		RBC-380
Downlink information per radio link list - Downlink information for each radio link	A4	Not present Not present Not present Not present	Rel-6 Rel-6 Rel-6 R99 and Rel-4 only	RBC-381 RBC-382 RBC-383 RBC-384
- Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change		FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present FALSE FALSE Primary CPICH may be used Set to value : Default DPCH Offset Value mod 38 400 Not Present 2 Reference to clause 6.10 Parameter Set 0 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") Set to value Default2: OMIT (otherwise) 0 Not Present	R99 and Rel-4 only R99 and Rel-4 only Rel-5 Rel-6	RBC-385 RBC-386 RBC-387 RBC-388 RBC-389 RBC-390 RBC-391 RBC-392 RBC-393 RBC-394 RBC-395 RBC-396 RBC-397 RBC-398 RBC-399 RBC-400 RBC-401 RBC-402 RBC-403 RBC-404
- TPC combination index - SSDT Cell Identity			R99 and Rel-4 only	RBC-405 RBC-406
- Closed loop timing adjustment mode - E-AGCH Info - E-HICH Information - E-RGCH Information - SCCPCH information for FACH		Not Present		RBC-407
- Downlink information for each radio link	A5	Not present Not present Not present Not present	Rel-6 Rel-6 Rel-6 R99 and Rel-4 only	RBC-408 RBC-409 RBC-410 RBC-411
				RBC-412

Information Element	Condition	Value/remark	Version	Index
- Choice mode		FDD		RBC-413
- Primary CPICH info		Ref. to the Default setting in clause 6.1 (FDD)		RBC-414
- Primary scrambling code		Not Present		RBC-415
- PDSCH with SHO DCH info		Not Present	R99 and Rel-4 only	RBC-416
- PDSCH code mapping		Not Present	R99 and Rel-4 only	RBC-417
- Serving HS-DSCH radio link indicator		FALSE	Rel-5	RBC-418
- Serving E-DCH radio link indicator		FALSE	Rel-6	RBC-419
- Downlink DPCH info for each RL		Not present		RBC-420
- E-AGCH Info		Not present	Rel-6	RBC-421
- E-HICH Information		Not present	Rel-6	RBC-422
- E-RGCH Information		Not present	Rel-6	RBC-423
- SCCPCH Information for FACH		Not Present	R99 and Rel-4 only	RBC-424
- Downlink information for each radio link	A6		R99	RBC-425
- Choice mode		FDD		RBC-426
- Primary CPICH info		Ref. to the Default setting in clause 6.1 (FDD)		RBC-427
- Primary scrambling code		Not Present		RBC-428
- PDSCH with SHO DCH info		Not Present	R99 and Rel-4 only	RBC-429
- PDSCH code mapping		Not Present	R99 and Rel-4 only	RBC-430
- Serving E-DCH radio link indicator		FALSE	Rel-6	RBC-431
- Downlink DPCH info for each RL		Not present		RBC-432
- E-AGCH Info		Not present	Rel-6	RBC-433
- E-HICH Information		Not present	Rel-6	RBC-434
- E-RGCH Information		Not present	Rel-6	RBC-435
- SCCPCH Information for FACH		Not Present	R99 and Rel-4 only	RBC-436
- Downlink information for each radio link	A6	Not Present	Rel-4 on	RBC-437
MBMS PL Service Restriction Information	A1,A2,A3,A4,A5,A6	Not Present	Rel-6	RBC-438

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 - RRC Message sequence number	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. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause Radio bearers for which reconfiguration would have succeeded List	Checked to see if it meets test requirement 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 CHOICE mode	Not checked
Deferred measurement control reading	FDD
COUNT-C activation time	Not present for Rel-7 or later, otherwise 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			RBR-001
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3	Rel-5	RBR-002 RBR-003
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.		RBR-004 RBR-005
- RRC message sequence number		SS provides the value of this IE, from its internal counter.		RBR-006
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+CFN-(CFN MOD 8 + 8))MOD 256		RBR-009
Activation time	A4, A5, A6	Not Present	Rel-5	RBR-010 RBR-011
New U-RNTI		Not Present		RBR-012
New C-RNTI	A1,A2,A3,A 4 , A9	Not Present		RBR-013
New C-RNTI	A5, A6, A7, A8 , A10	'1010 1010 1010 1010'	Rel-5	RBR-014 RBR-015
New DSCH-RNTI	A1, A2, A3, A4, A5, A6, A7, A8	Not Present	Rel-5	RBR-016
New H-RNTI	A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10,	Not Present		RBR-017 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
RRC State indicator	A5, A6, A7, A8 , A10	CELL_FACH	Rel-5	RBR-022 RBR-023 RBR-024
UE Mobility State Indicator		Not Present	Rel-5	RBR-025
UTRAN DRX cycle length coefficient	A1,A2,A3,A 4,A5,A6, A7, A8	Not Present	Rel-7	RBR-026 RBR-027

Information Element	Condition	Value/remark	Version	Index
CN information info	, A9, A10	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	Rel-7	RBR-031
RAB information to reconfigure list		Not Present		RBR-032
RB information to release	A1,A2, A7, A8			RBR-033
- RB identity		10		RBR-034
RB information to release	A2, A8	11		RBR-035
- RB identity				RBR-036
RB information to release	A2, A8	12		RBR-037
- RB identity				RBR-038
RB information to release	A3, A4, A5, A6			RBR-039
- RB identity		20		RBR-040
RB information to release	A9, A10	25	Rel-5	RBR-041
- RB identity				RBR-042
RB information to reconfigure list	A1,A2, A3,A4,A5, A6, A7, A8, A9, A10	Not Present	Rel-6	RBR-043
RB information to be affected	A1,A2, A3,A4,A5, A6, A7, A8 , A9, A10	Not Present		RBR-044
Downlink counter synchronization info	A1,A2,A3,A4,A5,A6, A7, A8 , A9, A10	Not Present	Rel-5	RBR-045
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.	Rel-5	RBR-046
Deleted UL TrCH Information	A1,A2, A3, A4, A5, A6, A7, A8 , A9, A10		Rel-5	RBR-047
- Uplink transport channel type		DCH	Rel-5	RBR-048
- Transport channel identity		1		RBR-049
Deleted UL TrCH Information	A2, A8	DCH		RBR-050
- Uplink transport channel type		2		RBR-051
- Transport channel identity				RBR-052
Deleted UL TrCH Information	A2, A8	DCH		RBR-053
- Uplink transport channel type		3		RBR-054
- Transport channel identity				RBR-055
Added or Reconfigured UL TrCH information	A5, A6, A7, A8 , A10	Not Present		RBR-056
Added or Reconfigured UL TrCH information	A1, A2, A3, A4 , A9	TrCHs(DCH for DCCH)	Rel-5	RBR-057
- Uplink transport channel type		DCH	Rel-5	RBR-058
- UL Transport channel identity		5		RBR-059
- TFS				RBR-060
- CHOICE Transport channel type		Dedicated transport channels		RBR-061
- Dynamic Transport format information				RBR-062
- RLC Size				RBR-063
- Number of TBs and TTI List		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)		RBR-064
- Transmission Time Interval		(This IE is repeated for TFI number.)		RBR-065
- Number of Transport blocks		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)		RBR-066
		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)		RBR-067

Information Element	Condition	Value/remark	Version	Index
- CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval		All According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RBR-074 RBR-075 RBR-076	
- Type of channel coding		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RBR-077	
- Coding Rate		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RBR-078	
- Rate matching attribute		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RBR-079	
- CRC size		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RBR-080	
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-081	
Deleted DL TrCH Information	A1, A2, A3, A4, A5, A6, A7, A8 , A9		Rel-5	RBR-082 RBR-083
- Downlink transport channel type - Transport channel identity		DCH	Rel-5	RBR-084 RBR-085
Deleted DL TrCH Information	A2, A8	6		RBR-086 RBR-087
- Downlink transport channel type - Transport channel identity		DCH		RBR-088 RBR-089
Deleted DL TrCH Information	A2, A8	7		RBR-090 RBR-091
- Downlink transport channel type - Transport channel identity		DCH		RBR-092
Deleted DL TrCH Information	A9, A10	8	Rel-5	RBR-093 RBR-094
- Downlink transport channel type - DL HS-DSCH MAC-d flow identity		HS-DSCH		RBR-095
Added or Reconfigured DL TrCH information	A5, A6, A7, A8 , A10	0 Not Present	Rel-5	RBR-096
Added or Reconfigured DL TrCH information	A1, A2, A3, A4 , A9	1 TrCHs(DCH for DCCH)	Rel-5	RBR-097 RBR-098
- Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value		DCH 10 Same as UL DCH 5 Not Present	Rel-5	RBR-099 RBR-100 RBR-101 RBR-102 RBR-103 RBR-104 RBR-105 RBR-106 RBR-107
Frequency info	A1,A2,A3,A4,A5, A7, A8 , A9, A10		Rel-5	RBR-108 RBR-109
- UARFCN uplink (Nu)		Not present 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		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 channel requirement	A5, A6, A7,	Not Present		RBR-117

Information Element	Condition	Value/remark	Version	Index
CHOICE channel requirement	A8 , A10 A1, A2, A3, A4 , A9	Uplink DPCH info	Rel-5	RBR-118 RBR-119
- Uplink DPCH power control info		-40 (-80dB)	Rel-5	RBR-120 RBR-121
- DPCCH power offset		1 frame		RBR-122
- PC Preamble		7 frames		RBR-123
- SRB delay		Algorithm1		RBR-124
- Power Control Algorithm		Not Present	Rel-5	RBR-125
- Δ_{ACK}		Not Present	Rel-5	RBR-126
- Δ_{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 R99 and Rel-4 only	RBR-140 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, A8 , A10	Not Present		RBR-143
Downlink information common for all radio links	A1,A2, A3 , A9	Maintain Not Present	Rel-5	RBR-144 RBR-145 RBR-146 RBR-147
- Downlink DPCH info common for all RL		0 (single)		RBR-148
- Timing indicator		FDD		RBR-149
- CFN-targetSFN frame offset		0		RBR-150
- Downlink DPCH power control information		Not Present		RBR-151
- DPC mode		Reference to clause 6.10 Parameter Set		RBR-152
- CHOICE mode		Reference to clause 6.10 Parameter Set		RBR-153
- Power offset $P_{Pilot-DPDCH}$		Not Present		RBR-154
- DL rate matching restriction information		Reference to clause 6.10 Parameter Set		RBR-155
- Spreading factor		Reference to clause 6.10 Parameter Set		RBR-156
- Fixed or Flexible Position		Reference to clause 6.10 Parameter Set		RBR-157
- TFCI existence		Reference to clause 6.10 Parameter Set		RBR-158
- CHOICE SF		Not Present		RBR-159
- DPCH compressed mode info		None		RBR-160
- TX Diversity mode		Not Present	R99 and Rel-4 only	RBR-161
- SSDT information		Not Present		RBR-162
- Default DPCH Offset Value		Not Present	R99 and Rel-4 only	RBR-163
- MAC-hs reset indicator		Not Present		RBR-164
Downlink information common for all radio links	A4	Initialize Not Present	Rel-5	RBR-165 RBR-166 RBR-167
- Downlink DPCH info common for all RL		0 (single)		RBR-168
- Timing indicator		FDD		RBR-169
- CFN-targetSFN frame offset		0		RBR-170
- Downlink DPCH power control information		Not Present		RBR-171
- DPC mode		Reference to clause 6.10 Parameter Set		RBR-172
- CHOICE mode				RBR-173
- Power offset $P_{Pilot-DPDCH}$				
- DL rate matching restriction information				
- Spreading factor		Reference to clause 6.10 Parameter Set		

Information Element	Condition	Value/remark	Version	Index
- Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present None Not Present		RBR-174 RBR-175 RBR-176 RBR-177 RBR-178 RBR-179
- Default DPCH Offset Value		Arbitrary set to value 0..306688 by step of 512	R99 and Rel-4 only	RBR-180
- MAC-hs reset indicator		Not Present	Rel-5	RBR-181 RBR-182
Downlink information for each radio link list	A1,A2,A3 , A9	FDD	Rel-5	RBR-183 RBR-184 RBR-185 RBR-186 RBR-187
- Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code		Ref. to the Default setting in clause 6.1 (FDD)		RBR-188
- PDSCH with SHO DCH info		Not Present	R99 and Rel-4 only	RBR-189
- PDSCH code mapping		Not Present	R99 and Rel-4 only	RBR-190
- Serving HS-DSCH radio link indicator		FALSE	Rel-5	RBR-191
- Serving E-DCH radio link indicator		FALSE	Rel-6	RBR-192
- Downlink DPCH info for each RL		Primary CPICH may be used		RBR-193
- Primary CPICH usage for channel estimation				
- DPCH frame offset		Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400		RBR-194
- Secondary CPICH info		Not Present		RBR-195
- Secondary scrambling code				RBR-196
- channelisation code				RBR-197
- DL channelisation code				RBR-198
- Secondary scrambling code				RBR-199
- Spreading factor				RBR-200
- Code number				RBR-201
- Scrambling code change				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	R99 and Rel-4 only	RBR-205
- E-AGCH Info		Not present	Rel-6	RBR-206
- E-HICH Information		Not present	Rel-6	RBR-207
- E-RGCH Information		Not present	Rel-6	RBR-208
- SCCPCH information for FACH		Not Present	R99 and Rel-4 only	RBR-209
Downlink information for each radio link list	A4			RBR-210
- Downlink information for each radio link		FDD		RBR-211
- Choice mode		Ref. to the Default setting in clause 6.1 (FDD)		RBR-212
- Primary CPICH info		Not Present	R99 and Rel-4 only	RBR-213
- Primary scrambling code			R99 and Rel-4 only	RBR-214
- PDSCH with SHO DCH info			R99 and Rel-4 only	RBR-215
- PDSCH code mapping			R99 and Rel-4 only	RBR-216
- Serving HS-DSCH radio link indicator		FALSE	Rel-5	RBR-217
- Serving E-DCH radio link indicator		FALSE	Rel-6	RBR-218
- Downlink DPCH info for each RL		Primary CPICH may be used		RBR-219
- Primary CPICH usage for channel estimation				RBR-220

Information Element	Condition	Value/remark	Version	Index
- DPCH frame offset - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change		Set to value : Default DPCH Offset Value mod 38 400 Not Present 3 Reference to clause 6.10 Parameter Set 0 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") Set to value Default2: OMIT (otherwise) 0 Not Present		RBR-221 RBR-222 RBR-223 RBR-224 RBR-225 RBR-226 RBR-227 RBR-228 RBR-229
- TPC combination index - SSDT Cell Identity		Not Present	R99 and Rel-4 only	RBR-230 RBR-231
- Closed loop timing adjustment mode - E-AGCH Info - E-HICH Information - E-RGCH Information - SCCPCH information for FACH		Not Present Not present Not present Not present Not Present	Rel-6 Rel-6 Rel-6 Rel-6 R99 and Rel-4 only	RBR-232 RBR-233 RBR-234 RBR-235 RBR-236
- Downlink information for each radio link - Choice mode - Primary CPICH info	A5, A7, A8	FDD		RBR-237 RBR-238 RBR-239
- Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - E-AGCH Info - E-HICH Information - E-RGCH Information - SCCPCH information for FACH - Downlink information for each radio link		Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present FALSE FALSE Not present Not present Not present Not present Not present Not Present		RBR-240 RBR-241 RBR-242 RBR-243 RBR-244 RBR-245 RBR-246 RBR-247 RBR-248 RBR-249 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 CHOICE mode	Not checked.
Deferred measurement control reading	FDD
COUNT-C activation time	Not present for Rel-7 or later, otherwise 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 Radio bearers for which reconfiguration would have succeeded	Checked to see if it meets test requirement Not checked

Contents of RRC CONNECTION REQUEST message: TM

Information Element	Condition	Value/remark	Version
Message Type		To be checked against requirement if specified	Rel-5
Predefined configuration status information			
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.	
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. 0000 0000 0001B 0000 0000 0000 0000 0001B	R99, Rel-4
- SRNC identity		
- S-RNTI		
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. - U-RNTI - SRNC identity - S-RNTI - Group identity - Group release information	Rel-5
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		
- RRC Message sequence number	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).	
N308		
Release cause	Normal event	
UE Mobility State Indicator	Not Present	
Rplmn information	Not Present	Rel-7

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 in CELL_FACH)

Information Element	Condition	Value/remark	Version	Index
Message Type	A1, A2, A3 , 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

Information Element	Condition	Value/remark	Version	Index
Activation time		Not Present(Now)		RCS-004
New U-RNTI		0000 0000 0001B		RCS-005
- SRNC identity		0000 0000 0000 0000 0001B		RCS-006
- S-RNTI				RCS-007
New C-RNTI	A1, A2, A3	Not present		RCS-008
	A4, A6	'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		CELL_FACH		RCS-019
UTRAN DRX cycle length coefficient		9		RCS-020
Capability update requirement		TRUE		RCS-021
- UE radio access FDD capability update requirement		FALSE		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
RNC support for change of UE capability		FALSE	Rel-7	RCS-027
CHOICE specification mode		Complete specification	Rel-5	RCS-028
- Complete specification			Rel-5	RCS-029
- Signalling RB information to setup	A1	(UM DCCH for RRC) Not Present		RCS-030
- RB identity				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		2 RBMuxOptions		RCS-039
- Information for each multiplexing option		Not Present		RCS-040
- RLC logical channel mapping indicator				RCS-041
- 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 info		1		RCS-048
- Number of RLC logical channels		1		RCS-049
channels		DCH		RCS-050
- Downlink transport channel type		10		RCS-051
- DL DCH Transport channel identity		Not Present		RCS-052
- DL DSCH Transport channel identity				RCS-053
- Logical channel identity		1		RCS-054
- RLC logical channel mapping indicator		Not Present		RCS-055
- Number of RLC logical channels		1		RCS-056
- Uplink transport channel type		RACH		

Information Element	Condition	Value/remark	Version	Index
- UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index		Not Present 1 Explicit List According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)		RCS-057 RCS-058 RCS-059 RCS-060
info		1		RCS-061 RCS-062
- MAC logical channel priority - Downlink RLC logical channel		1		RCS-063
type		FACH		RCS-064
- Number of RLC logical channels		Not Present		RCS-065
- Downlink transport channel identity		Not Present		RCS-066
- DL DCH Transport channel identity		1		RCS-067
- DL DSCH Transport channel identity				
- Logical channel identity				
- Signalling RB information to setup	A2	(UM DCCH for RRC) Not Present	Rel-6	RCS-068 RCS-069
- RB identity		UM RLC		RCS-070
- CHOICE RLC info type		Not Present		RCS-071
- RLC info		UM RLC		RCS-072
- CHOICE Uplink RLC mode		7 bit		RCS-073
- Transmission RLC discard		FALSE	Rel-6	RCS-074
- CHOICE Downlink RLC mode		1 RBMuxOption	Rel-6	RCS-075
- DL UM RLC LI size		Not Present		RCS-076
- One sided RLC re-establishment		1		RCS-077
- RB mapping info				RCS-078
- Information for each multiplexing option				
- RLC logical channel mapping indicator		Not Present		RCS-079
- 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 info				RCS-089
- 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		UM RLC		RCS-099
- CHOICE Uplink RLC mode		Not Present		RCS-100
- Transmission RLC discard		UM RLC		RCS-101
- CHOICE Downlink RLC mode		7 bit		RCS-102
- DL UM RLC LI size		FALSE		RCS-103
- One sided RLC re-establishment		TRUE		RCS-104
- Alternative E-bit interpretation		Not present		RCS-105
- Use special value of HE field		1 RBMuxOption		RCS-106
- RB mapping info				RCS-107
- Information for each multiplexing				RCS-108
				RCS-109

Information Element	Condition	Value/remark	Version	Index
option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - CHOICE RLC PDU size - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel		Not Present 1 E-DCH 1 1 1 Fixed size 1 RLC PDU size 144 bits FALSE 1		RCS-110 RCS-111 RCS-112 RCS-113 RCS-114 RCS-115 RCS-116 RCS-117 RCS-118 RCS-119 RCS-120 RCS-121
info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE DL MAC header type - DL HS-DSCH MAC-ehs		1 HS-DSCH Not present Not Present MAC-ehs 1	Rel-8	RCS-122 RCS-123 RCS-124 RCS-125 RCS-126 RCS-127
Queue Id - Logical channel identity		1		RCS-128
- Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE Downlink RLC mode - DL UM RLC LI size - One sided RLC re-establishment - Alternative E-bit interpretation - Use special value of HE field - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel	A4	(UM DCCH for RRC) Not present UM RLC Not Present UM RLC 7 bit FALSE Not Present Not Present 1 RBMuxOption Not Present 1 RACH Not Present 1 According to clause 6.10.2.4.4.1 (combinations on PRACH) 1 1 HS-DSCH Not present Not Present MAC-ehs 0 1	Rel-7	RCS-129 RCS-130 RCS-131 RCS-132 RCS-133 RCS-134 RCS-135 RCS-136 RCS-137 RCS-138 RCS-139 RCS-140 RCS-141 RCS-142 RCS-143 RCS-144 RCS-145 RCS-146 RCS-147 RCS-148 RCS-149 RCS-150 RCS-151 RCS-152 RCS-153 RCS-154 RCS-155 RCS-156
info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE DL MAC header type - DL HS-DSCH MAC-ehs				
Queue Id - Logical channel identity				
- Signalling RB information to setup - RB identity - CHOICE RLC info type	A1	(AM DCCH for RRC) Not Present		RCS-157 RCS-158 RCS-159

Information Element	Condition	Value/remark	Version	Index
- RLC info		AM RLC		RCS-160
- CHOICE Uplink RLC mode		No discard		RCS-161
- Transmission RLC discard		15		RCS-162
- SDU discard mode		32		RCS-163
- MAX_DAT		500		RCS-164
- Transmission window size		1		RCS-165
- Timer_RST		200		RCS-166
- Max_RST		200		RCS-167
- Polling info		Not Present		RCS-168
- Timer_poll_prohibit		1		RCS-169
- Timer_poll		TRUE		RCS-170
- Poll_PDU		TRUE		RCS-171
- Poll_SDU		99		RCS-172
- Last transmission PDU poll		Not Present		RCS-173
- Last retransmission PDU poll		AM RLC		RCS-174
- Poll_Window		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	Rel-6	RCS-175
- Timer_poll_periodic		TRUE		RCS-176
- CHOICE Downlink RLC mode		32		RCS-177
- DL RLC PDU size		2 RBMuxOptions		RCS-178
- In-sequence delivery		Not Present		RCS-179
- Receiving window size		1		RCS-180
- Downlink RLC status info		DCH		RCS-181
- Timer_status_prohibit		5		RCS-182
- Timer_EPC		2		RCS-183
- Missing PDU indicator		Configured		RCS-184
- Timer_STATUS_periodic		2		RCS-185
- RB mapping info		1		RCS-186
- Information for each multiplexing option		DCH		RCS-187
- RLC logical channel mapping indicator		10		RCS-188
- Number of RLC logical channels		Not Present		RCS-189
- Uplink transport channel type		Not Present		RCS-190
- UL Transport channel identity		2		RCS-191
- Logical channel identity		Configured		RCS-192
- CHOICE RLC size list		2		RCS-193
- MAC logical channel priority		1		RCS-194
- Downlink RLC logical channel info		DCH		RCS-195
- Number of RLC logical channels		1		RCS-196
- Downlink transport channel type		DCH		RCS-197
- DL DCH Transport channel identity		Not Present		RCS-198
- DL DSCH Transport channel identity		2		RCS-199
- Logical channel identity		Not Present		RCS-200
- RLC logical channel mapping indicator		1		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		1		RCS-209
- Number of RLC logical channels		FACH		RCS-210
- Downlink transport channel type		Not Present		RCS-211
- DL DCH Transport channel identity				RCS-212

Information Element	Condition	Value/remark	Version	Index
- DL DSCH Transport channel identity - Logical channel identity		Not Present 2		RCS-213 RCS-214
- Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - 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_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity	A2	(AM DCCH for RRC) Not Present AM RLC No discard 15 32 500 1 200 200 Not Present 1 TRUE TRUE 99 Not Present AM RLC TRUE 32 200 Not Present TRUE Not Present 1 RBMuxOption Not Present 1 E-DCH 2 1 2 1 RLC PDU size 144 bits FALSE 2 1 HS-DSCH Not Present Not Present 1 2	Rel-6	RCS-215 RCS-216 RCS-217 RCS-218 RCS-219 RCS-220 RCS-221 RCS-222 RCS-223 RCS-224 RCS-225 RCS-226 RCS-227 RCS-228 RCS-229 RCS-230 RCS-231 RCS-232 RCS-233 RCS-234 RCS-235 RCS-236 RCS-237 RCS-238 RCS-239 RCS-240 RCS-241 RCS-242 RCS-243 RCS-244 RCS-245 RCS-246 RCS-247 RCS-248 RCS-249 RCS-250 RCS-251 RCS-252 RCS-253 RCS-254 RCS-255 RCS-256 RCS-257 RCS-258 RCS-259 RCS-260 RCS-261
- Signalling RB information to setup	A3	(AM DCCH for RRC)	Rel-7	RCS-262
- RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT	A5, A6	Not present AM RLC No discard 15	Rel-8	RCS-263 RCS-264 RCS-265 RCS-266 RCS-267 RCS-268 RCS-269 RCS-270

Information Element	Condition	Value/remark	Version	Index
- 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	Reference to clause 6 Parameter Set		RCS-284	
Size				
- 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	
option				
- RLC logical channel mapping indicator	Not Present		RCS-297	
- Number of RLC logical channels	1		RCS-298	
- Uplink transport channel type	E-DCH		RCS-299	
- Logical channel identity	2		RCS-300	
- E-DCH MAC-d flow identity	1		RCS-301	
- DDI	2		RCS-302	
- CHOICE RLC PDU size	Fixed size		RCS-303	
- RLC PDU size list	1 RLC PDU size		RCS-304	
- RLC PDU size	144 bits		RCS-305	
info	- Include in scheduling info	FALSE	RCS-306	
- MAC logical channel priority	2		RCS-307	
- Downlink RLC logical channel			RCS-308	
channels	- Number of RLC logical channels	1	RCS-309	
- Downlink transport channel type	HS-DSCH		RCS-310	
type	- DL DCH Transport channel identity	Not Present	RCS-311	
- DL DSCH Transport channel identity	Not Present		RCS-312	
identity	- CHOICE DL MAC header type	MAC-ehs	RCS-313	
- DL HS-DSCH MAC-ehs	1		RCS-314	
Queue Id	- Logical channel identity	2	RCS-315	
- Signalling RB information to setup				
- RB identity	(AM DCCH for RRC)		Rel-7	RCS-316
- CHOICE RLC info type	Not present			RCS-317
- RLC info				RCS-318
- CHOICE Uplink RLC mode	AM RLC			RCS-319
- Transmission RLC discard				RCS-320
- SDU discard mode	No discard			RCS-321
- MAX_DAT	15			RCS-322
- Transmission window size	32			RCS-324
- Timer_RST	500			RCS-325
- Max_RST	1			RCS-326
- Polling info				RCS-327
- Timer_poll_prohibit	200			RCS-328

Information Element	Condition	Value/remark	Version	Index
- Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU	200 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set		RCS-329 RCS-330 RCS-331 RCS-332 RCS-333 RCS-334 RCS-335 RCS-336 RCS-337	
Size	7 TRUE 32 200 Not Present TRUE Not Present Not Present Not Present 1 RBMuxOption		RCS-338 RCS-339 RCS-340 RCS-341 RCS-342 RCS-343 RCS-344 RCS-345 RCS-346 RCS-347 RCS-348 RCS-349	
option indicator	Not Present		RCS-350	
- RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index	1 RACH Not Present 2 Explicit List According to clause 6.10.2.4.4.1 (combinations on PRACH) 2		RCS-351 RCS-352 RCS-353 RCS-354 RCS-355 RCS-356	
info type	HS-DSCH		RCS-359	
identity	Not Present		RCS-360	
- DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs	Not Present MAC-ehs 1		RCS-361 RCS-362 RCS-363	
Queue Id	2		RCS-364	
- Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - 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_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - DL RLC PDU size	A1 AM RLC No discard 15 32 500 1 200 200 Not present 1 TRUE TRUE 99 Not Present AM RLC According to clause 6.10.2.4.1.3 (standalone)	(AM DCCH for NAS_DT High priority) Not Present AM RLC No discard 15 32 500 1 200 200 Not present 1 TRUE TRUE 99 Not Present AM RLC According to clause 6.10.2.4.1.3 (standalone)	RCS-365 RCS-366 RCS-367 RCS-368 RCS-369 RCS-370 RCS-371 RCS-372 RCS-373 RCS-374 RCS-375 RCS-376 RCS-377 RCS-378 RCS-379 RCS-380 RCS-381 RCS-382 RCS-383 RCS-384 RCS-385 RCS-386	Rel-6 RCS-386

Information Element	Condition	Value/remark	Version	Index
- In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity		13.6 kbps signalling radio bearer) TRUE 32 200 Not present TRUE Not Present 2 RBMuxOptions Not Present 1 DCH 5 3 Configured 3 1 DCH 10 Not Present 3 Not Present 1 RACH Not Present 3 Explicit List According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 3 RCS-416 RCS-417 1 FACH Not Present Not Present 3		RCS-387 RCS-388 RCS-389 RCS-390 RCS-391 RCS-392 RCS-393 RCS-394 RCS-395 RCS-396 RCS-397 RCS-398 RCS-399 RCS-400 RCS-401 RCS-402 RCS-403 RCS-404 RCS-405 RCS-406 RCS-407 RCS-408 RCS-409 RCS-410 RCS-411 RCS-412 RCS-413 RCS-414 RCS-415 RCS-416 RCS-417 RCS-418 RCS-419 RCS-420 RCS-421 RCS-422
- Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU	A2	(AM DCCH for NAS_DT High priority) Not Present AM RLC No discard 15 32 500 1 200 200 Not present 1	Rel-6	RCS-423 RCS-424 RCS-425 RCS-426 RCS-427 RCS-428 RCS-429 RCS-430 RCS-431 RCS-432 RCS-433 RCS-434 RCS-435 RCS-436 RCS-437 RCS-438

Information Element	Condition	Value/remark	Version	Index
- Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator		TRUE TRUE 99 Not Present AM RLC TRUE 32 200 Not present TRUE Not Present 1 RBMuxOption Not Present	RCS-439 RCS-440 RCS-441 RCS-442 RCS-443 RCS-444 RCS-445 RCS-446 RCS-447 RCS-448 RCS-449 RCS-450 RCS-451 RCS-452 RCS-453	
info		1 E-DCH 3 1 3 1 RLC PDU size 144 bits FALSE 3 1 HS-DSCH	RCS-454 RCS-455 RCS-456 RCS-457 RCS-458 RCS-459 RCS-460 RCS-461 RCS-462 RCS-463 RCS-464 RCS-465 RCS-466 RCS-467 RCS-468 RCS-469	
type		Not Present		
identity		Not Present		
identity		Not Present		
identity		1		
identity		3		
- Signalling RB information to setup	A3	(AM DCCH for NAS_DT High priority)	Rel-7	RCS-470
Size	A5, A6	Not present AM RLC No discard 15 32 500 1 200 200 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set 7 TRUE 32	Rel-8	RCS-471 RCS-472 RCS-473 RCS-474 RCS-475 RCS-476 RCS-477 RCS-478 RCS-479 RCS-480 RCS-481 RCS-482 RCS-483 RCS-484 RCS-485 RCS-486 RCS-487 RCS-488 RCS-489 RCS-490 RCS-491 RCS-492 RCS-493 RCS-494 RCS-495 RCS-496

Information Element	Condition	Value/remark	Version	Index
- Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - Alternative E-bit interpretation - Use special value of HE field - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE DL MAC header type - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity		200 Not Present TRUE Not Present Not Present TRUE 1 RBMuxOption Not Present 1 E-DCH 3 1 Fixed size 2 1 RLC PDU size 144 bits FALSE 3 1 HS-DSCH Not Present Not Present MAC-ehs 1 3	RCS-497 RCS-498 RCS-499 RCS-500 RCS-501 RCS-502 RCS-503 RCS-504 RCS-505 RCS-506 RCS-507 RCS-508 RCS-509 Rel-8 RCS-510 RCS-511 RCS-512 RCS-513 RCS-514 RCS-515 RCS-516 RCS-517 RCS-518 RCS-519 RCS-520 RCS-521 RCS-522 RCS-523	
- Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - 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_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU	A4	(AM DCCH for NAS_DT High priority) Not present AM RLC No discard 15 32 500 1 200 200 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set	Rel-7	RCS-524 RCS-525 RCS-526 RCS-527 RCS-528 RCS-529 RCS-530 RCS-531 RCS-532 RCS-533 RCS-534 RCS-535 RCS-536 RCS-537 RCS-538 RCS-539 RCS-540 RCS-541 RCS-542 RCS-543 RCS-544 RCS-545
Size - Length indicator size - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - Alternative E-bit interpretation		7 TRUE 32 200 Not Present TRUE Not Present Not Present		RCS-546 RCS-547 RCS-548 RCS-549 RCS-550 RCS-551 RCS-552 RCS-553 RCS-554

Information Element	Condition	Value/remark	Version	Index
- Use special value of HE field		Not Present	RCS-555	
- RB mapping info		1 RBMuxOption	RCS-556	
- Information for each multiplexing option		Not Present	RCS-557	
- RLC logical channel mapping indicator		Not Present	RCS-558	
- 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 info		- MAC logical channel priority	RCS-566	
- Number of RLC logical channels		1	RCS-567	
- Downlink transport channel type		HS-DSCH	RCS-568	
- DL DCH Transport channel identity		Not Present	RCS-569	
- DL DSCH Transport channel identity		Not Present	RCS-570	
- CHOICE DL MAC header type		MAC-ehs	RCS-571	
- DL HS-DSCH MAC-ehs		1	RCS-572	
Queue Id		3	RCS-573	
- Signalling RB information to setup	A1	(AM DCCH for NAS_DT Low priority)	RCS-574	
- RB identity		Not Present	RCS-575	
- CHOICE RLC info type		AM RLC	RCS-576	
- RLC info		No discard	RCS-577	
- CHOICE Uplink RLC mode		15	RCS-578	
- Transmission RLC discard		32	RCS-579	
- SDU discard mode		500	RCS-580	
- MAX_DAT		1	RCS-581	
- Transmission window size		200	RCS-582	
- Timer_RST		200	RCS-583	
- Max_RST		Not present	RCS-584	
- Polling info		1	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)	RCS-595	
- In-sequence delivery		TRUE	RCS-596	
- Receiving window size		32	RCS-597	
- Downlink RLC status info		200	RCS-598	
- Timer_status_prohibit		Not Present	RCS-599	
- Timer_EPC		TRUE	RCS-600	
- Missing PDU indicator		Not Present	RCS-601	
- Timer_STATUS_periodic		Not Present	RCS-602	
- RB mapping info		2 RBMuxOptions	RCS-603	
- Information for each multiplexing option		Not Present	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	

Information Element	Condition	Value/remark	Version	Index
- CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity	Configured 4 1 DCH 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit List According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 4		RCS-610 RCS-611 RCS-612 RCS-613 RCS-614 RCS-615 RCS-616 RCS-617 RCS-618 RCS-619 RCS-620 RCS-621 RCS-622 RCS-623 RCS-624 RCS-625 RCS-626 RCS-627 RCS-628 RCS-629 RCS-630 RCS-631	
- Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - 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_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator	A2	(AM DCCH for NAS_DT Low priority) Not Present AM RLC No discard 15 32 500 1 200 200 Not present 1 TRUE TRUE 99 Not Present AM RLC TRUE 32 200 Not Present TRUE Not Present 1 RBMuxOption Not Present	Rel-6	RCS-632 RCS-633 RCS-634 RCS-635 RCS-636 RCS-637 RCS-638 RCS-639 RCS-640 RCS-641 RCS-642 RCS-643 RCS-644 RCS-645 RCS-646 RCS-647 RCS-648 RCS-649 RCS-650 RCS-651 RCS-652 RCS-653 RCS-654 RCS-655 RCS-656 RCS-657 RCS-658 RCS-659 RCS-660 RCS-661 RCS-662

Information Element	Condition	Value/remark	Version	Index
- Number of RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity		1 E-DCH 4 1 4 1 RLC PDU size 144 bits FALSE 4 1 HS-DSCH Not Present Not Present 1 4		RCS-663 RCS-664 RCS-665 RCS-666 RCS-667 RCS-668 RCS-669 RCS-670 RCS-671 RCS-672 RCS-673 RCS-674 RCS-675 RCS-676 RCS-677 RCS-678
- Signalling RB information to setup	A3, A5 , A6	(AM DCCH for NAS DT Low priority)	Rel-7	RCS-679
- RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - 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_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU		Not present AM RLC No discard 15 32 500 1 200 200 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set	Rel-8	RCS-680 RCS-681 RCS-682 RCS-683 RCS-684 RCS-685 RCS-686 RCS-687 RCS-688 RCS-689 RCS-690 RCS-691 RCS-692 RCS-693 RCS-694 RCS-695 RCS-696 RCS-697 RCS-698 RCS-699 RCS-700
Size		7 TRUE 32 200 Not Present TRUE Not Present Not Present TRUE 1 RBMuxOption		RCS-701 RCS-702 RCS-703 RCS-704 RCS-705 RCS-706 RCS-707 RCS-708 RCS-709 RCS-710 RCS-711 RCS-712
option		Not Present		RCS-713
- RLC logical channel mapping indicator		1 E-DCH 4 1 Fixed size 2	Rel-8	RCS-714 RCS-715 RCS-716 RCS-717 RCS-718 RCS-719

Information Element	Condition	Value/remark	Version	Index
- RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs		1 RLC PDU size 144 bits FALSE 4 1 HS-DSCH Not Present Not Present MAC-ehs 1 4		RCS-720 RCS-721 RCS-722 RCS-723 RCS-724 RCS-725 RCS-726 RCS-727 RCS-728 RCS-729 RCS-730 RCS-731
Queue Id - Logical channel identity				
- Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - 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_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU	A4	(AM DCCH for NAS DT Low priority) Not present AM RLC No discard 15 32 500 1 200 200 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set	Rel-7	RCS-732 RCS-733 RCS-734 RCS-735 RCS-736 RCS-737 RCS-738 RCS-739 RCS-740 RCS-741 RCS-742 RCS-743 RCS-744 RCS-745 RCS-746 RCS-747 RCS-748 RCS-749 RCS-750 RCS-751 RCS-752 RCS-753
Size - Length indicator size - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - Alternative E-bit interpretation - Use special value of HE field - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical		7 TRUE 32 200 Not Present TRUE Not Present Not Present Not Present Not Present 1 RBMuxOption Not Present 1 RACH Not Present 4 Explicit List According to clause 6.10.2.4.4.1 (Combinations on PRACH) 4 1		RCS-754 RCS-755 RCS-756 RCS-757 RCS-758 RCS-759 RCS-760 RCS-761 RCS-762 RCS-763 RCS-764 RCS-765 RCS-766 RCS-767 RCS-768 RCS-769 RCS-770 RCS-771 RCS-772 RCS-773 RCS-774 RCS-775

Information Element	Condition	Value/remark	Version	Index
channels		HS-DSCH	RCS-776	
- Downlink transport channel type		Not Present	RCS-777	
- DL DCH Transport channel identity		Not Present	RCS-778	
- DL DSCH Transport channel identity		MAC-ehs	RCS-779	
- CHOICE <i>DL MAC header type</i>		1	RCS-780	
- DL HS-DSCH MAC-ehs		4	RCS-781	
Queue Id			RCS-782	
- Logical channel identity			RCS-782	
UL Transport channel information for all transport channels	A1		RCS-783	
- PRACH TFCS		Not Present	RCS-784	
- CHOICE Mode		FDD	RCS-785	
- TFC subset		Nor Present	RCS-786	
- UL DCH TFCS		Normal	RCS-787	
- CHOICE TFCI signalling		Complete	RCS-788	
- TFCI Field 1 information		2bit CTFC	RCS-789	
- CHOICE TFCS representation		This IE is repeated for TFC numbers according to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RCS-790	
- TFCS complete reconfigure		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RCS-791	
- CHOICE CTFC Size		Computed Gain Factors (The last TFC is set to Signalled Gain Factors)	RCS-792	
- CTFC information		11 (below 64 kbps)	RCS-793	
		9 (higher than 64 kbps)	RCS-794	
		(Not Present if the above is set to Computed Gain Factors)	RCS-795	
		15	RCS-796	
		(Not Present if the above is set to Computed Gain Factors)	RCS-797	
		0	RCS-798	
		FDD	RCS-799	
		Not Present	RCS-800	
UL Transport channel information for all transport channels	A2	Not Present	Rel-6	RCS-801
UL Transport channel information for all transport channels	A3, A4	Not Present	Rel-7	RCS-802
	A5, A6		Rel-8	RCS-803
Added or Reconfigured UL TrCH information	A1		RCS-804	
- Uplink transport channel type		DCH	RCS-805	
- UL Transport channel identity		5	RCS-806	
- TFS		Dedicated transport channels	RCS-807	
- CHOICE Transport channel type		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RCS-808	
- Dynamic Transport format information		(This IE is repeated for TFI number)	RCS-809	
- RLC size		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RCS-810	
		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RCS-811	
		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RCS-812	
		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RCS-813	
		All	RCS-814	
		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RCS-815	
Semi-static Transport Format information		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RCS-816	
- Transmission time interval		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	RCS-817	
- Type of channel coding		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)		

Information Element	Condition	Value/remark	Version	Index
- Coding Rate		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)		RCS-818
- Rate matching attribute		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)		RCS-819
- CRC size		According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)		RCS-820
Added or Reconfigured UL TrCH information	A2	1 E-DCH added with one DCCH MAC-d flow	Rel-6	RCS-821
- Uplink transport channel type	A3	E-DCH	Rel-7	RCS-822
- CHOICE UL parameters		E-DCH		RCS-823
- 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-824
- HARQ info for E-DCH		rvtable		RCS-825
- HARQ RV Configuration		(for DCCH)		RCS-826
- Added or reconfigured E-DCH MAC-d flow		1		RCS-827
- E-DCH MAC-d flow identity		0		RCS-828
- E-DCH MAC-d flow power offset		7		RCS-829
- E-DCH MAC-d flow maximum number of retransmissions		Not Present		RCS-830
- E-DCH MAC-d flow multiplexing list		Non-scheduled grant info		RCS-831
- CHOICE transmission grant type	type	162 bits	RCS-832	RCS-832
- Max MAC-e PDU contents size		Not Present		RCS-833
- 2 ms non-scheduled transmission grant HARQ process allocation				RCS-834
Added or Reconfigured UL TrCH information	A4	Not Present	Rel-7	RCS-835
Added or Reconfigured UL TrCH information	A5, A6	1 E-DCH added with one DCCH MAC-d flow	Rel-8	RCS-836
- Uplink transport channel type		E-DCH		RCS-837
- CHOICE UL parameters		E-DCH		RCS-838
- UL MAC header type		MAC-i/is		RCS-839
- 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-840
- HARQ info for E-DCH		rvtable		RCS-841
- HARQ RV Configuration		(for DCCH)		RCS-842
- Added or reconfigured E-DCH MAC-d flow		1		RCS-843
- E-DCH MAC-d flow identity		0		RCS-844
- E-DCH MAC-d flow power offset		7		RCS-845
- E-DCH MAC-d flow maximum number of retransmissions	type	Not Present	RCS-846	RCS-846
- E-DCH MAC-d flow multiplexing list		Non-scheduled grant info		RCS-847
- CHOICE transmission grant type		168 bits		RCS-848
- Max MAC-e PDU contents size		Not Present		RCS-849
- 2 ms non-scheduled transmission grant HARQ process allocation				RCS-850
DL Transport channel information common for all transport channel	A1	Not Present		RCS-851
- SCCPCH TFCS		FDD		RCS-852
- CHOICE mode		Same as UL		RCS-853
- CHOICE DL parameters				RCS-854
DL Transport channel information	A2	Not Present	Rel-6	RCS-855

Information Element	Condition	Value/remark	Version	Index
common for all transport channel				
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		-20 (-2.0)		RCS-865
- BLER Quality value				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		Reference to clause 6.10.2.4.5 Parameter Set		RCS-871
- Number of Processes		Implicit		RCS-872
- CHOICE Memory				RCS-873
<i>Partitioning</i>				
- 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		148		RCS-880
- MAC-d PDU size		0		RCS-881
- MAC-d PDU size index		Not present		RCS-882
- MAC-hs queue to delete list		Not present		RCS-883
- DCH quality target				RCS-884
Added or Reconfigured DL TrCH information	A3	1 TrCH (HS-DSCH for DCCH)	Rel-7	RCS-885
- Downlink transport channel type	A5	HS-DSCH	Rel-8	RCS-886
- DL Transport channel identity		Not Present		RCS-887
- CHOICE DL parameters		HS-DSCH		RCS-888
- HARQ Info		Reference to clause 6.10.2.4.5 Parameter Set		RCS-889
- Number of Processes		Implicit		RCS-890
- CHOICE Memory				RCS-891
<i>Partitioning</i>				
- CHOICE DL MAC header type		MAC-ehs		RCS-893
- Added or reconfigured MAC-ehs reordering queue		(1 queue)		RCS-894
- MAC-ehs queue to add or reconfigure list		1		RCS-895
- MAC-ehs queue Id		50		RCS-896
- T1		16		RCS-897
- MAC-ehs window size		Not present		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	Rel-7	RCS-905
Added or Reconfigured DL TrCH information	A4	Not present	Rel-7	RCS-906
	A6		Rel-8	
Uplink DPCH info	A1			RCS-907
- Uplink DPCH power control info		-40 (-80dB)		RCS-908
- DPCCH power offset		1 frame		RCS-909
- PC Preamble		7 frames		RCS-910
- SRB delay				RCS-911

Information Element	Condition	Value/remark	Version	Index
- Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - Spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit - Number of TPC bits		Algorithm1 0 (1dB) Long 0 (0 to 16777215) Not Present(1) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Not present	Rel-7	RCS-912 RCS-913 RCS-914 RCS-915 RCS-916 RCS-917 RCS-918 RCS-919 RCS-920 RCS-921
Uplink DPCH info	A2		Rel-6	RCS-922
	A3		Rel-7	RCS-923
	A5		Rel-8	RCS-924 RCS-925 RCS-926 RCS-927 RCS-928 RCS-929 RCS-930 RCS-931 RCS-932 RCS-933 RCS-934 RCS-935 RCS-936 RCS-937 RCS-938 RCS-939 RCS-940 RCS-941
		-40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) 3 3 1 0 Long 0 (0 to 16777215) 0 Not Present FALSE Not Present Not Present		
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
		TRUE 0 100 ms Not present Not present 0 9 2 E-TFCIs 11 4 83 16 2sf4 0.84		RCS-947 RCS-948 RCS-949 RCS-950 RCS-951 RCS-952 RCS-953 RCS-954 RCS-955 RCS-956 RCS-957 RCS-958 RCS-959 RCS-960 RCS-961 RCS-962 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				RCS-969

Information Element	Condition	Value/remark	Version	Index
configuration - 2ms scheduled transmission grant HARQ process allocation - Serving Grant - UL 16QAM settings		Not present Not present Not present	RCS-970 RCS-971 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
- HS-SCCH Info - CHOICE mode - DL Scrambling Code - HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - Measurement Feedback Info - CHOICE mode - POhsdsch - CQI Feedback cycle, k - CQI repetition factor - Δ_{CQI} - CHOICE mode - Downlink 64QAM configured - HS-DSCH TB size table	A3	FDD Not present 7 FDD 6 dB 4 ms 1 5 (corresponds to 0dB in relative power offset) FDD (no data) Not present Not present	Rel-7 Rel-7 RCS-982 RCS-983 RCS-984 RCS-985 RCS-986 RCS-987 RCS-988 RCS-989 RCS-990 RCS-991	RCS-977 RCS-978 RCS-979 RCS-980 RCS-981 RCS-982 RCS-983 RCS-984 RCS-985 RCS-986 RCS-987 RCS-988 RCS-989 RCS-990 RCS-991
Downlink HS-PDSCH Information	A4	Not present	Rel-7	RCS-992
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing Indication - CFN-targetSFN frame offset - CHOICE mode - Downlink DPCH power control information - DPC mode - Power offset P_Pilot-DPDCH - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value	A1	Initialize Not Present FDD 0 (single) 0 Not Present According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Not Present None Not Present Arbitrary set to value 0..306688 by step of 512	RCS-993 RCS-994 RCS-995 RCS-996 RCS-997 RCS-998 RCS-999 RCS-1000 RCS-1001 RCS-1002 RCS-1003 RCS-1004 RCS-1005 RCS-1006 RCS-1007 RCS-1008 R99 and Rel-4 only RCS-1009	RCS-993 RCS-994 RCS-995 RCS-996 RCS-997 RCS-998 RCS-999 RCS-1000 RCS-1001 RCS-1002 RCS-1003 RCS-1004 RCS-1005 RCS-1006 RCS-1007 RCS-1008 RCS-1009
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 - Timing Indication - Downlink F-DPCH power control information - DPC mode - TPC command error rate target		Initialise 0 (single) 0.04		RCS-1013 RCS-1014 RCS-1015 RCS-1016 RCS-1017

Information Element	Condition	Value/remark	Version	Index
- F-DPCH frame offset - F-DPCH slot format - Secondary CPICH info - Secondary scrambling code - Code number - TPC combination index - E-AGCH Info - E-AGCH Channelisation Code - CHOICE E-HICH Information - E-HICH Information - Channelisation code - Signature sequence - CHOICE E-RGCH Information - E-RGCH Information - Signature Sequence - RG combination index		Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present Not Present Not Present 12 0 10 4 1 0 0	Rel-7	RCS-1061 RCS-1062 RCS-1063 RCS-1064 RCS-1065 RCS-1066 RCS-1067 RCS-1068 RCS-1069 RCS-1070 RCS-1071 RCS-1072 RCS-1073 RCS-1074 RCS-1075 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	

NOTE: If not specified, then A1 will be the default condition

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)

Information Element	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 update requirement	TRUE		RCSU-015
- 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	GSM		RCSU-019
CHOICE specification mode	Complete specification	Rel-5	RCSU-020
- Complete specification		Rel-5	RCSU-021
- Signalling RB information to setup	(UM DCCH for RRC)		RCSU-022

Information Element	Value/remark	Version	Index
- 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 option	2 RBMuxOptions		RCSU-032
- RLC logical channel mapping indicator	Not Present		RCSU-033
- Number of uplink 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 downlink 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 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	No Discard		RCSU-064
- SDU discard mode	15		RCSU-065
- MAX_DAT	32		RCSU-066
- Transmission window size	500		RCSU-067
- Timer_RST	1		RCSU-068
- Max_RST			RCSU-069
- Polling info	200		RCSU-070
- Timer_poll_prohibit	200		RCSU-071
- Timer_poll	Not Present		RCSU-072
- Poll_PDU	1		RCSU-073
- Poll_SDU	TRUE		RCSU-074
- Last transmission PDU poll	TRUE		RCSU-075
- Last retransmission PDU poll	99		RCSU-076
- Poll_Windows	Not Present		RCSU-077
- Timer_poll_periodic			RCSU-078

Information Element	Value/remark	Version	Index
- 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 indicator	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
- 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	No Discard		RCSU-121
- SDU discard mode	15		RCSU-122
- MAX_DAT	32		RCSU-123
- Transmission window size	500		RCSU-124
- Timer_RST	1		RCSU-125
- Max_RST			RCSU-126
- Polling info	200		RCSU-127
- Timer_poll_prohibit	200		RCSU-128
- Timer_poll	Not Present		RCSU-129
- Poll_PDU	1		RCSU-130
- Poll_SDU	TRUE		RCSU-131
- Last transmission PDU poll	TRUE		RCSU-132
- Last retransmission PDU poll	TRUE		RCSU-133

Information Element	Value/remark	Version	Index
- 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
- CHOICE RLC size list	Configured		RCSU-152
- MAC logical channel priority	3		RCSU-153
- Downlink RLC logical channel info			RCSU-154
- Number of downlink RLC logical channels	1		RCSU-155
- Downlink transport channel type	DCH		RCSU-156
- DL DCH Transport channel identity	10		RCSU-157
- DL DSCH Transport channel identity	Not Present		RCSU-158
- Logical channel identity	3		RCSU-159
- RLC logical channel mapping indicator	Not Present		RCSU-160
- Number of uplink RLC logical channels	1		RCSU-161
- Uplink transport channel type	RACH		RCSU-162
- UL DCH Transport channel identity	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			RCSU-168
- Number of downlink RLC logical channels	1		RCSU-169
- Downlink transport channel type	FACH		RCSU-170
- DL DCH Transport channel identity	Not Present		RCSU-171
- DL DSCH Transport channel identity	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	No Discard		RCSU-178
- SDU discard mode	15		RCSU-179
- MAX_DAT	32		RCSU-180
- Transmission window size	500		RCSU-181
- Timer_RST	1		RCSU-182
- Max_RST	200		RCSU-183
- Polling info	200		RCSU-184
- Timer_poll_prohibit	200		RCSU-185
- Timer_poll	Not Present		RCSU-186
- Poll_PDU			RCSU-187

Information Element	Value/remark	Version	Index
- 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 option	2 RBMuxOptions		RCSU-203
- RLC logical channel mapping indicator	Not Present		RCSU-204
- Number of uplink RLC logical channels	1		RCSU-205
- 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 channels	1		RCSU-212
- Downlink transport channel type	DCH		RCSU-213
- DL DCH Transport channel identity	10		RCSU-214
- DL DSCH Transport channel identity	Not Present		RCSU-215
- Logical channel identity	4		RCSU-216
- RLC logical channel mapping indicator	Not Present		RCSU-217
- Number of uplink RLC logical channels	1		RCSU-218
- 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 channels	1		RCSU-226
- Downlink transport channel type	FACH		RCSU-227
- DL DCH Transport channel identity	Not Present		RCSU-228
- DL DSCH Transport channel identity	Not Present		RCSU-229
- Logical channel identity	4		RCSU-230
UL Transport channel information for all transport channels			RCSU-231
- 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		RCSU-241

Information Element	Value/remark	Version	Index
- CTFC	6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 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 β_c	11 (below 64 kbps) 9 (equal or higher than 64 kbps) when HSDPA is not configured 9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured 6 (equal or higher than 384 kbps) when HSDPA is also configured (Not Present if the above is set to Computed Gain Factors)	RCSU-245	
- Gain factor β_d	15 (Not Present if the above is set to Computed Gain Factors)	RCSU-246	
- Reference TFC ID	0	RCSU-247	
- CHOICE mode	FDD	RCSU-248	
- Power offset Pp-m	Not Present	RCSU-249	
Added or Reconfigured TrCH information list	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-250	
- Added or Reconfigured UL TrCH information		RCSU-251	
- Uplink transport channel type	DCH	RCSU-252	
- UL Transport channel identity	5	RCSU-253	
- TFS		RCSU-254	
- CHOICE Transport channel type	Dedicated transport channels	RCSU-255	
- Dynamic Transport format information		RCSU-256	
- RLC Size	bitMode sizeType2 {part1 2, part2 OMIT} This results in an RLC size of 144 bits	RCSU-257	
- Number of TBs and TTI List	List with two entry	RCSU-258	
- Transmission Time Interval	Not Present	RCSU-259	
- Number of Transport blocks	0	RCSU-260	
- Transmission Time Interval	Not Present	RCSU-261	
- Number of Transport blocks	1	RCSU-262	
- CHOICE Logical channel List	ALL	RCSU-263	
- Semi-static Transport Format information		RCSU-264	
- Transmission time interval	40 ms	RCSU-265	
- Type of channel coding	Convolutional	RCSU-266	
- Coding Rate	1/3	RCSU-267	
- Rate matching attribute	-170	RCSU-268	
- CRC size	16	RCSU-269	
DL Transport channel information common for all transport channel		RCSU-270	
- SCCPCH TFCS	Not Present	RCSU-271	
- CHOICE mode	FDD	RCSU-272	
- CHOICE DL parameters	Same as UL	RCSU-273	
Added or Reconfigured TrCH information list	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-274	
- Added or Reconfigured DL TrCH information		RCSU-275	
- Downlink transport channel type	DCH	RCSU-276	
- DL Transport channel identity	10	RCSU-277	
- CHOICE DL parameters	Same as UL	RCSU-278	
- Uplink Transport channel type	DCH	RCSU-279	
- UL TrCH identity	5	RCSU-280	
- DCH quality target	Not Present	RCSU-281	
Frequency info	Not present	RCSU-282	
Maximum allowed UL TX power	Not present	RCSU-283	
CHOICE channel requirement	Not Present	RCSU-284	
E-DCH Info	Not Present	Rel-6	RCSU-285
Downlink HS-PDSCH Information	Not Present	Rel-6	RCSU-286
Downlink information common for all radio	Not Present		RCSU-287

Information Element	Value/remark	Version	Index
links Downlink information for each radio link list	Not present		RCSU-288

Contents of RRC CONNECTION SETUP COMPLETE message: AM

Information Element	Value/remark
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
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

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
Message Type	A1, A2	Arbitrarily selects an integer between 0 and 3
RRC transaction identifier		
Integrity check info		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.
- Message authentication code		Set to an arbitrarily selected integer between 0 and 15
- RRC Message Sequence Number		
Security 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.
- Ciphering algorithm capability		
- 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.
- Spare		Spare 2-15 = FALSE
- Integrity protection algorithm capability		000000000000010B (UIA1)
- UIA1		TRUE
- Spare		Spare 0 and Spare 2-15 = 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. The indicated algorithm must be one of the algorithms supported by the UE as

Information Element	Condition	Value/remark
- Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number		indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. Not Present 1 Current RLC SN 2 Current RLC SN+2 3 Current RLC SN 4 Current RLC SN Start Not Present UIA1 SS selects an arbitrary 32 bits number for FRESH CS or PS Not Checked
CN domain identity UE system specific security capability UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability	A1 A2	GSM 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 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.
Uplink integrity protection activation info Radio bearer uplink ciphering activation time info	Not checked. 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 TFCI signalling		Normal		TCR-033
- TFCI Field 1 information		Complete reconfiguration		TCR-034
- CHOICE TFCS representation				TCR-035
- TFCS complete reconfigure information				TCR-036
- 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
- CTFC information		This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set		TCR-038

Information Element	Condition	Value/remark	Version	Index
- CTFC - Power offset information - CHOICE Gain Factors - Gain factor β_c		Reference to clause 6.10.2.4 Parameter Set Computed Gain Factors (The last TFC is set to Signalled Gain Factors) 11 (equal or below 64 kbps) when HSDPA is not configured 9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured 6 (equal or higher than 384 kbps) when HSDPA is also configured 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 0 FDD Not Present Not Present		TCR-039 TCR-040 TCR-041 TCR-042 TCR-043
- Gain factor β_d	A1, A2, A5, A6			TCR-044
- Reference TFC ID - CHOICE mode - Power offset P p-m	A4	2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 5 Dedicated transport channels		TCR-045 TCR-046 TCR-047 TCR-048
Added or Reconfigured UL TrCH information				TCR-049
Added or Reconfigured UL TrCH information				TCR-050
- Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format				TCR-051
information				TCR-052
- RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All		TCR-053 TCR-054 TCR-055 TCR-056 TCR-057 TCR-058 TCR-059
information				TCR-060
- Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set		TCR-061 TCR-062 TCR-063 TCR-064 TCR-065
- Uplink transport channel type		DCH		TCR-066
- UL Transport channel identity		1		TCR-067
- TFS				TCR-068
- CHOICE Transport channel type		Dedicated transport channels		TCR-069
- Dynamic Transport format				
information				
- RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All		TCR-070 TCR-071 TCR-072 TCR-073 TCR-074 TCR-075
information				TCR-076
- Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set		TCR-077 TCR-078 TCR-079 TCR-080 TCR-081
Added or Reconfigured UL TrCH information	A3	(DCH for DTCH)		TCR-082
- Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format		DCH 1 Dedicated transport channels		TCR-083 TCR-084 TCR-085 TCR-086

Information Element	Condition	Value/remark	Version	Index
information		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All	TCR-087 TCR-088 TCR-089 TCR-090 TCR-091 TCR-092	
- RLC Size			TCR-087	
- Number of TBs and TTI List			TCR-088	
- Transmission Time Interval			TCR-089	
- Number of Transport blocks			TCR-090	
- CHOICE Logical channel list			TCR-091	
- Semi-static Transport Format			TCR-092	
information		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present	TCR-093 TCR-094 TCR-095 TCR-096 TCR-097 TCR-098	
- Transmission time interval			TCR-093	
- Type of channel coding			TCR-094	
- Coding Rate			TCR-095	
- Rate matching attribute			TCR-096	
- CRC size			TCR-097	
CHOICE mode	A1,A2,A3,A4,A5,A6	Not Present	TCR-098	
DL Transport channel information common for all transport channel	A1, A2, A5,A6	Not Present	TCR-099	
DL Transport channel information common for all transport channel	A3,A4		TCR-100	
- SCCPCH TFCS		Not Present	TCR-101	
- CHOICE mode		FDD	TCR-102	
- CHOICE DL parameters		Explicit	TCR-103	
- DL DCH TFCS		Normal	TCR-104	
- CHOICE TFCI Signalling		Complete reconfiguration	TCR-105	
- TFCI Field 1 Information		Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set.	TCR-106	
- CHOICE TFCS representation		This IE is repeated for TFC numbers and reference to clause 6.10.2.4	TCR-107	
- TFCS complete reconfigure		Reference to clause 6.10.2.4 Parameter Set	TCR-108	
- CHOICE CTFC Size		Not Present	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) DCH 10 Same as UL DCH 5	TCR-114	
- Downlink transport channel type		Not Present	TCR-115	
- DL Transport channel identity		DCH	TCR-116	
- CHOICE DL parameters		10	TCR-117	
- Uplink transport channel type		Same as UL	TCR-118	
- UL TrCH identity		DCH	TCR-119	
- DCH quality target		5	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	
- TFS		Except for RAB with the symmetric DL and UL rate: Same as UL		
- CHOICE Transport channel type		Dedicated transport channel	TCR-125	
- Dynamic transport format			TCR-126	
information		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)	TCR-127	
- RLC Size			TCR-128	
- Number of TBs and TTI List			TCR-129	
- Dynamic transport format			TCR-130	
information		Not Present	TCR-131	
- Transmission Time Interval		Reference to clause 6.10 Parameter Set	TCR-132	
- Number of Transport blocks				
- Semi-static Transport Format			TCR-133	
information		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set	TCR-134 TCR-135 TCR-136 TCR-137	
- Transmission time interval			TCR-134	
- Type of channel coding			TCR-135	
- Coding Rate			TCR-136	
- Rate matching attribute			TCR-137	

Information Element	Condition	Value/remark	Version	Index	
- CRC size - DCH quality target - BLER Quality value Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters	A3	Reference to clause 6.10 Parameter Set -20 (-2.0) DCH 6 Explicit Except for RAB with the symmetric DL and UL rate: Same as UL Dedicated transport channel		TCR-138 TCR-139 TCR-140 TCR-141 TCR-142 TCR-143 TCR-144 TCR-145 TCR-146 TCR-147	
- TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		TCR-148 TCR-149 TCR-150	
Frequency info - UARFCN uplink (Nu)	A1,A2,A3,A4,A5	Not Present Reference to clause 6.10 Parameter Set		TCR-151 TCR-152 TCR-153	
- UARFCN downlink (Nd)	A6	Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set -20 (-2.0)		TCR-154 TCR-155 TCR-156 TCR-157 TCR-158 TCR-159 TCR-160 TCR-161	
Frequency info DTX-DRX timing information DTX-DRX Information HS-SCCH less Information MIMO parameters Maximum allowed UL TX power		Not present Absence of this IE is equivalent to applying the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] Reference to clause 5.1 Test frequencies		TCR-162 TCR-163 TCR-164	
CHOICE channel requirement CHOICE channel requirement -Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Δ_{ACK} - Δ_{NACK} - Ack-Nack repetition factor - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Number of TPC bits - Puncturing Limit	A1, A2, A3, A4, A5, A6 A5, A6 A1, A2, A3, A4	Not Present Not Present Not Present Not Present Not Present 33dBm Not Present Uplink DPCH info -40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) Not Present Not Present Not Present Long 0 (0 to 16777215) Not Present(1) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Not Present Reference to clause 6.10 Parameter Set Not Present FDD	Rel-7 Rel-7 Rel-7 Rel-7 Rel-7	TCR-165 TCR-166 TCR-167 TCR-168 TCR-169 TCR-170 TCR-171 TCR-172 TCR-173 TCR-174 TCR-175 TCR-176 TCR-177 TCR-178 TCR-179 TCR-180 TCR-181 TCR-182 TCR-183 TCR-184 TCR-185 TCR-186 Rel-7 Rel-6 R99 and Rel-4 only R99 and Rel-	TCR-165 TCR-166 TCR-167 TCR-168 TCR-169 TCR-170 TCR-171 TCR-172 TCR-173 TCR-174 TCR-175 TCR-176 TCR-177 TCR-178 TCR-179 TCR-180 TCR-181 TCR-182 TCR-183 TCR-184 TCR-185 TCR-186 TCR-187 TCR-188 TCR-189 TCR-190 TCR-191
E-DCH Info CHOICE Mode - Downlink PDSCH information	A1, A2, A3, A4, A5, A6	Not Present			

Information Element	Condition	Value/remark	Version	Index
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6	Not Present	4 only 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		Maintain		TCR-195
- Timing indicator		Not Present		TCR-196
- CFN-targetSFN frame offset				TCR-197
- Downlink DPCH power control information				TCR-198
- DPC mode		0 (single)		TCR-199
- CHOICE mode		FDD		TCR-200
- Power offset $P_{\text{Pilot-DPDCH}}$		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	Rel-5	TCR-210
- MAC-hs reset indicator		Not Present		TCR-211
Downlink information common for all radio links	A4			TCR-212
- Downlink DPCH info common for all RL		Initialize		TCR-213
- Timing indicator		Not Present		TCR-214
- CFN-targetSFN frame offset				TCR-215
- Downlink DPCH power control information				TCR-216
- DPC mode		0 (single)		TCR-217
- CHOICE mode		FDD		TCR-218
- Power offset $P_{\text{Pilot-DPDCH}}$		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		FDD		TCR-231
- CHOICE mode		Ref. to the Default setting in clause 6.1 (FDD)		TCR-232
- Primary CPICH info		Not Present		TCR-233
- Primary scrambling code				TCR-234
- PDSCH with SHO DCH info			R99 and Rel-4 only	TCR-235
- PDSCH code mapping		Not Present	R99 and Rel-4 only	TCR-236
- Serving HS-DSCH radio link indicator		FALSE	Rel-5	TCR-237
- Serving E-DCH radio link indicator		FALSE	Rel-6	TCR-238

Information Element	Condition	Value/remark	Version	Index
- Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Power offset $P_{\text{Pilot-DPDCH}}$ - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change		Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 0 Not Present 4 Reference to clause 6.10 Parameter Set 0 0 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") Set to value Default2: OMIT (otherwise) 0 Not Present Not Present	TCR-239 TCR-240 TCR-241 TCR-242 TCR-243 TCR-244 TCR-245 TCR-246 TCR-247 TCR-248 TCR-249 TCR-250 R99 and Rel-4 only TCR-251 Rel-6 Rel-6 Rel-6	TCR-239 TCR-240 TCR-241 TCR-242 TCR-243 TCR-244 TCR-245 TCR-246 TCR-247 TCR-248 TCR-249 TCR-250 TCR-251 TCR-252 TCR-253 TCR-254
- SCCPCH information for FACH Downlink information for each radio link list - Downlink information for each radio link - CHOICE mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Power offset $P_{\text{Pilot-DPDCH}}$ - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change	A4	Not Present FDD Ref. to the Default setting in clause 6.1 (FDD) Not Present Not Present FALSE FALSE Primary CPICH may be used Set to value: Default DPCH Offset Value mod 38 400 0 Not Present 4 Reference to clause 6.10 Parameter Set 0 0 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") Set to value Default2: OMIT (otherwise) 0 Not Present Not Present	R99 and Rel-4 only R99 and Rel-4 only R99 and Rel-4 only Rel-6 TCR-255 TCR-256 TCR-257 TCR-258 TCR-259 TCR-260 TCR-261 TCR-262 TCR-263 TCR-264 TCR-265 TCR-266 TCR-267 TCR-268 TCR-269 TCR-270 TCR-271 TCR-272 TCR-273 TCR-274 TCR-275 TCR-276 R99 and Rel-4 only TCR-277 Rel-6 Rel-6	TCR-255 TCR-256 TCR-257 TCR-258 TCR-259 TCR-260 TCR-261 TCR-262 TCR-263 TCR-264 TCR-265 TCR-266 TCR-267 TCR-268 TCR-269 TCR-270 TCR-271 TCR-272 TCR-273 TCR-274 TCR-275 TCR-276 TCR-277 TCR-278 TCR-279

Information Element	Condition	Value/remark	Version	Index
- E-RGCH Information - SCCPCH information for FACH		Not Present Not Present	Rel-6 R99 and Rel-4 only	TCR-280 TCR-281
- Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code	A5	FDD Ref. to the Default setting in clause 6.1 (FDD)		TCR-282 TCR-283 TCR-284 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 - Serving E-DCH radio link indicator		FALSE FALSE	Rel-5 Rel-6	TCR-288 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 - SCCPCH information for FACH		Not Present Not Present	Rel-6 R99 and Rel-4 only	TCR-293 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 - RRC Message sequence number	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. 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 CHOICE mode	Not checked FDD
Deferred measurement control reading COUNT-C activation time Radio bearer uplink ciphering activation time info Uplink counter synchronization info	Not present for Rel-7 or later, otherwise Not checked Not checked Not checked 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
DPCCH/PUSCH TFCS in Uplink	
- CHOICE Subset representation	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	
- 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.

Information Element	Value/remark
- 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.
UE radio access capability	Value will be checked. Stated capability must be compatible with 3GPP TS 34.123-2 [3] (ICS statements) and the user settings
<ul style="list-style-type: none"> - Access stratum release indicator - PDCP Capability - RLC Capability - Transport channel capability - RF Capability FDD - RF Capability TDD - Physical channel capability - UE multi-mode/multi-RAT capability - Security Capability - UE positioning Capability - Measurement capability 	
UE radio access capability extension	Value will be checked. Stated capability must be compatible with 3GPP TS 34.123-2 [3] (ICS statements) and the user settings
UE system specific capability	Not Checked

Contents of UE CAPABILITY INFORMATION CONFIRM message: AM or UM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Set to the same value as received in the UE CAPABILITY INFORMATION message.
Integrity check info	
<ul style="list-style-type: none"> - 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.

Contents of URA UPDATE message: TM

Information Element	Value/remark
Message Type	
U-RNTI	
<ul style="list-style-type: none"> - SRNC identity - S-RNTI 	0000 0000 0001B 0000 0000 0000 0000 0001B
RRC transaction identifier	Checked to see if it is absent
Integrity check info	
<ul style="list-style-type: none"> - 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

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. 0000 0000 0001B 0000 0000 0000 0000 0001B
<ul style="list-style-type: none"> - SRNC identity - S-RNTI 	
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

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	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

Information Element	Value/remark
- 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

Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

Information Element	Value/remark
Message Type	Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION 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
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	Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION 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

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	
UE information elements	
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 and 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 Mpcps 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 CCTrCH	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 CCTrCH 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	FASLE
- Network Assisted GPS support	None
- Support for GPS timing of cell frames	FALSE
measurement	
- Support for IPDL	FALSE
- Support for RX-TX time difference type2	FALSE
measurement	
- Support for Up measurement validaity 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		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.		TCR3-003
- message authentication code				TCR3-004
- RRC message sequence number		SS provides the value of this IE, from its internal counter.		TCR3-005
Integrity protection mode info				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, A7, A8, A9, A10	8))MOD 256 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 <ul style="list-style-type: none">- PRACH TFCS- CHOICE mode- Individual UL CCTrCH information<ul style="list-style-type: none">- UL TFCS Identity- TFCS ID- Shared Channel Indicator- UL TFCS<ul style="list-style-type: none">- CHOICE <i>TFCI signalling</i>- TFCI Field 1 Information- CHOICE <i>TFCS representation</i>- TFCS complete reconfiguration information- CHOICE CTFC Size- CTFC information- CTFC- Power offset information- CHOICE Gain Factors<ul style="list-style-type: none">- Reference TFC ID- CHOICE Gain Factors- CHOICE mode- Gain Factor β_d- Reference TFC ID- CHOICE mode	A3, A4	Not Present TDD 1 FALSE Normal Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from 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 Parameter Set Reference to TS34.108 clause 6.10.3.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 0 Integer(0.. 3) Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) TDD 15 0 Integer(0.. 3) TDD	TCR3-025 TCR3-026 TCR3-027 TCR3-028 TCR3-029 TCR3-030 TCR3-031 TCR3-032 TCR3-033 TCR3-034 TCR3-035 TCR3-036 TCR3-037 TCR3-038 TCR3-039 TCR3-040 TCR3-041 TCR3-042 TCR3-043 TCR3-044 TCR3-045 TCR3-046 TCR3-047 TCR3-048 TCR3-049 TCR3-050	
- TFC subset		Full transport format combination set		
- CHOICE Subset representation		Not Present		
- 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) DCH 5 Dedicated transport channels Reference to TS34.108 clause 6.10 Parameter Set This IE is repeated for maxTF number Not Present Reference to TS34.108 clause 6.10 Parameter Set All		TCR3-052
- Added or Reconfigured UL TrCH information		TCR3-053		
- Uplink transport channel type		TCR3-054		
- UL Transport channel identity		TCR3-055		
- TFS		TCR3-056		
- CHOICE Transport channel type		TCR3-057		
- Dynamic Transport format information		TCR3-058		
- RLC Size		TCR3-059		
- Number of TBs and TTI List		TCR3-060		
- Transmission Time Interval		TCR3-061		
- Number of Transport blocks		TCR3-062		
- CHOICE Logical Channel list		TCR3-063		
- Semi-static Transport Format information		TCR3-064		
- Transmission time interval		TCR3-065		
- Type of channel coding		TCR3-066		
- Coding Rate		TCR3-067		
- Rate matching attribute		TCR3-068		
- CRC size		TCR3-069		
- Uplink transport channel type		TCR3-070		
- UL Transport channel identity		TCR3-071		
- TFS		TCR3-072		
- CHOICE Transport channel type		TCR3-073		
- Dynamic Transport format information		TCR3-074		
- RLC Size		TCR3-075		
- Number of TBs and TTI List		TCR3-076		
- Transmission Time Interval		TCR3-077		
- Number of Transport blocks		TCR3-078		
- CHOICE Logical Channel list		TCR3-079		
- Semi-static Transport Format information		TCR3-080		
- Transmission time interval		TCR3-081		
- Type of channel coding		TCR3-082		
- Coding Rate		TCR3-083		
- Rate matching attribute		TCR3-084		
- CRC size		TCR3-085		
Added or Reconfigured TrCH information list	A3	(DCH for DTCH) DCH 1 Dedicated transport channels Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TF number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set All		TCR3-086
- Added or Reconfigured UL TrCH information		TCR3-087		
- Uplink transport channel type		TCR3-088		
- UL Transport channel identity		TCR3-089		
- TFS		TCR3-090		
- CHOICE Transport channel type		TCR3-091		
- Dynamic Transport format information		TCR3-092		
- RLC Size		TCR3-093		
- Number of TBs and TTI List	1 to maxTF	TCR3-094		
- Transmission Time Interval		TCR3-095		
- Number of Transport blocks		TCR3-096		
- CHOICE Logical Channel list		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 mode	A1,A2,A3, 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, 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 mode		TDD		TCR3-109
- Individual DL CCTrCH information				TCR3-110
- DL TFCS Identity				TCR3-111
- TFCS ID				TCR3-112
- Shared Channel Indicator				TCR3-113
- CHOICE DL parameters				TCR3-114
- DL TFCS				TCR3-115
- CHOICE TFCI Signalling				TCR3-116
- TFCI Field 1 Information				TCR3-117
- CHOICE TFCS representation				TCR3-118
- TFCS complete reconfiguration information				TCR3-119
- CHOICE CTFC Size				TCR3-120
- CTFC information				TCR3-121
- CTFC				TCR3-122
- Power offset information				TCR3-123
Added or Reconfigured TrCH information list	A1, A2, A5, 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) DCH 10 Same as UL DCH 5 -20 (-2.0) Not Present DCH 6 Explicit Dedicated transport channels Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TF number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set - DCH quality target - BLER Quality value		TCR3-125 TCR3-126 TCR3-127 TCR3-128 TCR3-129 TCR3-130 TCR3-131 TCR3-132 TCR3-133 TCR3-134 TCR3-135 TCR3-136 TCR3-137 TCR3-138 TCR3-139 TCR3-140 TCR3-141 TCR3-142 TCR3-143 TCR3-144 TCR3-145 TCR3-146 TCR3-147 TCR3-148 TCR3-149 TCR3-150 TCR3-151 TCR3-152
Added or Reconfigured TrCH information list	A3			TCR3-153
- Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value		DCH 6 Explicit Dedicated transport channels Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TF number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set -20 (-2.0)	TCR3-154 TCR3-155 TCR3-156 TCR3-157 TCR3-158 TCR3-159 TCR3-160 TCR3-161 TCR3-162 TCR3-163 TCR3-164 TCR3-165 TCR3-166 TCR3-167 TCR3-168 TCR3-169 TCR3-170 TCR3-171 TCR3-172 TCR3-173	
Frequency info	A1, A2, A3,			TCR3-174

Information Element	Condition	Value/remark	Version	Index
- Choice mode - UARFCN (Nt)	A4, A5	TDD Reference to clause 5.1 Test frequencies		TCR3-175 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		TDD		TCR3-181
- CHOICE mode		3.84 Mcps TDD	Rel-4	TCR3-182
- CHOICE TDD option		6		TCR3-183
- UL target SIR		Individually Signalled	Rel-4	TCR3-184
- CHOICE UL OL PC info		3.84 Mcps TDD		TCR3-185
- CHOICE TDD option		Reference to TS34.108 clause 6.10.3 Parameter Set (for number of TS's)		TCR3-186
- Individual timeslot interference info		3.84 Mcps TDD	Rel-4	TCR3-187
- Individual timeslot interference		As required by, Reference to TS34.108 clause 6.10.3 Parameter Set		TCR3-188
- CHOICE TDD option		Parameter Set		TCR3-189
- Timeslot number		As required by, Reference to TS34.108 clause 6.10.3 Parameter Set (if not specified - 60 dBm)		TCR3-190
- TDD UL interference		18 Integer(6..43) (-70 dBm Received if pathloss not specified)		TCR3-191
- Primary CCPCH Tx Power		TDD		TCR3-192
- CHOICE mode		Enabled	Rel-4	TCR3-193
- Uplink Timing Advance Control		3.84 Mcps TDD		TCR3-194
- CHOICE Timing Advance				TCR3-195
- CHOICE TDD option				TCR3-196
- UL CCTrCH List		1		TCR3-197
- TFCS ID				TCR3-198
- UL Target SIR		Real (-11 .. 20 by step of 0.5dB) Reference to TS34.108 Parameter set.		TCR3-199
- Time info		(256+CFN-(CFN MOD 8 + 8))MOD 256		TCR3-200
- Activation time		Infinite		TCR3-201
- Duration				TCR3-202
- Common timeslot info		Default value is "Frame"		TCR3-203
- 2 nd interleaving mode		Reference to TS34.108 clause 6 Parameter set		TCR3-204
- TFCI coding		Reference to TS34.108 clause 6 Parameter set		TCR3-205
- Puncturing limit		1		TCR3-206
- Repetition period		null		TCR3-207
- Repetition length				TCR3-208
- Uplink DPCH timeslots and code		FALSE		TCR3-209
- Dynamic SF usage				TCR3-210
- First individual timeslot info		3.84 Mcps TDD	Rel-4	TCR3-211
- Timeslot number		1 OR 2 OR 3		TCR3-212
- CHOICE TDD option		TRUE		TCR3-213
- Timeslot number				TCR3-214
- TFCI existence				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
- Midamble Shift - CHOICE TDD option - First timeslot Code List - channelisation codes		Not Present 3.84 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. No more timeslots Not present TDD	Rel-4	TCR3-220 TCR3-221 TCR3-222 TCR3-223
CHOICE Mode - CHOICE more timeslots - UL CCTrCH List to Remove	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	No data Not Present		TCR3-224 TCR3-225
Downlink HS-PDSCH Information - Downlink PDSCH information	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	No data Not Present		TCR3-226 TCR3-227 TCR3-228
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information	A1, A2, A3	Maintain Not Present		TCR3-229 TCR3-230 TCR3-231 TCR3-232 TCR3-233
- CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value		TDD 1 Not Present TDD TDD 3.84 Mcps TDD Not Present	Rel-4	TCR3-234 TCR3-235 TCR3-236 TCR3-237 TCR3-238 TCR3-239 TCR3-240
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value	A4	Initialise Not Present TDD 1 Not Present TDD TDD 3.84 Mcps TDD	Rel-4	TCR3-241 TCR3-242 TCR3-243 TCR3-244 TCR3-245 TCR3-246 TCR3-247 TCR3-248 TCR3-249 TCR3-250 TCR3-251 TCR3-252
- CHOICE mode - Default DPCH Offset Value	A5, A6, A7, A8, A9, A10	TDD 0 Integer(0..7) Not Present		TCR3-253 TCR3-254 TCR3-255
Downlink information common for all radio links Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator	A1, A2, A3	TDD TDD 3.84 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE	Rel-4	TCR3-256 TCR3-257 TCR3-258 TCR3-259 TCR3-260 TCR3-261 TCR3-262 TCR3-263 TCR3-264
- Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - TFCS ID		TDD 2 Integer(1..8)		TCR3-265 TCR3-266 TCR3-267 TCR3-268 TCR3-269

Information Element	Condition	Value/remark	Version	Index
- Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode		Now Infinite Default value is "Frame"		TCR3-270 TCR3-271 TCR3-272 TCR3-273 TCR3-274
- TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option		Reference to TS34.108 clause 6 Parameter set Reference to TS34.108 clause 6 Parameter set 1 NULL 3.84 Mcps TDD		TCR3-275 TCR3-276 TCR3-277 TCR3-278 TCR3-279 TCR3-280 TCR3-281 TCR3-282
- Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH		4 OR 5 OR 6 TRUE 3.84 Mcps TDD Type 1 Default midamble 16 Not Present 3.84 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. Bitmap Reference to TS34.108 clause 6.10 Parameter Set No more timeslots Default (is previous list or all defined UL CCTrCHs.) 1 FALSE Not present Not Present	Rel-4 Rel-4	TCR3-283 TCR3-284 TCR3-285 TCR3-286 TCR3-287 TCR3-288 TCR3-289 TCR3-290 TCR3-291 TCR3-292 TCR3-293 TCR3-294 TCR3-295 TCR3-296 TCR3-297 TCR3-298 TCR3-299 TCR3-300 TCR3-301
Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator - Downlink DPCCH info for each RL - CHOICE mode - DL CCTrCh List	A4	TDD TDD 3.84 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE TDD	R99 and Rel-4 only Rel-4	TCR3-302 TCR3-303 TCR3-304 TCR3-305 TCR3-306 TCR3-307 TCR3-308 TCR3-309 TCR3-310 TCR3-311 TCR3-312 TCR3-313 TCR3-314

Information Element	Condition	Value/remark	Version	Index
<ul style="list-style-type: none"> - TFCS ID - Time info <ul style="list-style-type: none"> - Activation time - Duration - Common timeslot info <ul style="list-style-type: none"> - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length 		2 Integer(1..8) Now Infinite		TCR3-315 TCR3-316 TCR3-317 TCR3-318 TCR3-319 TCR3-320 TCR3-321 TCR3-322
<ul style="list-style-type: none"> - Downlink DPCH timeslots and codes <ul style="list-style-type: none"> - First individual timeslot info <ul style="list-style-type: none"> - Timeslot number <ul style="list-style-type: none"> - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type <ul style="list-style-type: none"> - CHOICE TDD option - CHOICE Burst Type <ul style="list-style-type: none"> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes 		3.84 Mcps TDD 4 OR 5 OR 6 TRUE	Rel-4	TCR3-323 TCR3-324 TCR3-325 TCR3-326 TCR3-327 TCR3-328 TCR3-329 TCR3-330 TCR3-331 TCR3-332 TCR3-333 TCR3-334 TCR3-335 TCR3-336 TCR3-337 TCR3-338
<ul style="list-style-type: none"> - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List <ul style="list-style-type: none"> - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH 		3.84 Mcps TDD Type 1 Default midamble 16 Not Present 3.84 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. Bitmap Reference to TS34.108 clause 6.10 Parameter Set No more timeslots Default (is previous list or all defined UL CCTrCHs.)	Rel-4	TCR3-339 TCR3-340 TCR3-341 TCR3-342 TCR3-343 TCR3-344 TCR3-345 TCR3-346 TCR3-347
Downlink information per radio link list <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CCPCH info <ul style="list-style-type: none"> - Choice mode - Choice TDD Option <ul style="list-style-type: none"> - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator 	A5	1 FALSE Not present Not Present	R99 and Rel-4 only	TCR3-348 TCR3-349 TCR3-350 TCR3-351 TCR3-352 TCR3-353 TCR3-354 TCR3-355 TCR3-356 TCR3-357 TCR3-358 TCR3-359
Downlink information per radio link list		TDD TDD 3.84 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE Not Present Not Present	Rel-4	TCR3-350 TCR3-351 TCR3-352 TCR3-353 TCR3-354 TCR3-355 TCR3-356 TCR3-357 TCR3-358 TCR3-359
Downlink information per radio link list	A6, A7, A8, A9, A10	Not Present	R99 and Rel-4 only	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
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 - 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.		TCR1-003 TCR1-004
- RRC message sequence number				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 mode		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
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 mode		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

Information Element	Condition	Value/remark	Version	Index
- UL TFCS - CHOICE <i>TFCI signalling</i> - TFCI Field 1 Information - CHOICE <i>TFCS representation</i> - TFCS complete reconfiguration information - CHOICE CTFC Size		Normal Complete reconfiguration		TCR1-035 TCR1-036 TCR1-037 TCR1-038 TCR1-039
- CTFC information		Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set		TCR1-040
- CTFC		Reference to clause 6.11.5.4 Parameter Set		TCR1-041
- Power offset information - CHOICE Gain Factors		Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 0 Integer(0.. 3) Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)		TCR1-042 TCR1-043 TCR1-044
- Reference TFC ID - CHOICE Gain Factors		0 Integer(0.. 3) Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)		TCR1-045 TCR1-046
- CHOICE mode - Gain Factor β_d - Reference TFC ID - CHOICE mode		TDD 15 0 Integer(0.. 3) TDD		TCR1-047 TCR1-048
- TFC subset - CHOICE Subset representation		Full transport format combination set		TCR1-049
- TFC subset list	A1, A2, A5, A6	Not Present		TCR1-050
Added or Reconfigured TrCH information list	A4	Not Present		TCR1-051
Added or Reconfigured TrCH information list		2 TrCHs(DCH for DCCH and DCH for DTCH)		TCR1-052
- Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size		DCH 5		TCR1-053 TCR1-054 TCR1-055
- Number of TBs and TTI List		Dedicated transport channels		TCR1-056
- Transmission Time Interval - Number of Transport blocks		Reference to clause 6.11 Parameter Set		TCR1-057
- CHOICE Logical channel list		This IE is repeated for maxTF number		TCR1-058
- Semi-static Transport Format information				TCR1-059
- Transmission time interval				TCR1-060
- Type of channel coding				TCR1-061
- Coding Rate				TCR1-062
- Rate matching attribute				TCR1-063
- CRC size				
- Uplink transport channel type - UL Transport channel identity - TFS		Not Present		TCR1-064
- CHOICE Transport channel type - Dynamic Transport format information - RLC Size		Reference to clause 6.11 Parameter Set		TCR1-065
- Number of TBs and TTI List		All		TCR1-066
		Reference to clause 6.11 Parameter Set		TCR1-067
		Reference to clause 6.11 Parameter Set		TCR1-068
		Reference to clause 6.11 Parameter Set		TCR1-069
		Reference to clause 6.11 Parameter Set		TCR1-070
		Reference to clause 6.11 Parameter Set		TCR1-071
		Reference to clause 6.11 Parameter Set		TCR1-072
		DCH		TCR1-073
		1		TCR1-074
		Dedicated transport channels		TCR1-075
		Reference to clause 6.11 Parameter Set		TCR1-076
		Reference to clause 6.11 Parameter Set		TCR1-077
		This IE is repeated for maxTF		TCR1-078
				TCR1-079

Information Element	Condition	Value/remark	Version	Index
- Transmission Time Interval - Number of Transport blocks		number Not Present Reference to clause 6.11 Parameter Set All		TCR1-080 TCR1-081
- CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set		TCR1-082 TCR1-083 TCR1-084
- Type of channel coding		Reference to clause 6.11		TCR1-085
- Coding Rate		Parameter Set		TCR1-086
- Rate matching attribute		Reference to clause 6.11		TCR1-087
- CRC size		Parameter Set		TCR1-088
Added or Reconfigured TrCH information list	A3	Reference to clause 6.11 Parameter Set (DCH for DTCH)		TCR1-089
- Added or Reconfigured UL TrCH information		DCH		TCR1-090
- Uplink transport channel type		1		TCR1-091
- UL Transport channel identity		Dedicated transport channels		TCR1-092
- TFS		Reference to clause 6.11 Parameter Set		TCR1-093
- CHOICE Transport channel type		(This IE is repeated for TF number.)		TCR1-094
- Dynamic Transport format information		Not Present		TCR1-095
- RLC Size		Reference to clause 6.11 Parameter Set		TCR1-096
- Number of TBs and TTI List	1 to maxTF	All		TCR1-097
- Transmission Time Interval		Reference to clause 6.11		TCR1-098
- Number of Transport blocks		Parameter Set		TCR1-099
- CHOICE Logical channel list		Reference to clause 6.11		TCR1-100
- Semi-static Transport Format information		Parameter Set		TCR1-101
- Transmission time interval		Reference to clause 6.11		TCR1-102
- Type of channel coding		Parameter Set		TCR1-103
- Coding Rate		Reference to clause 6.11		TCR1-104
- Rate matching attribute		Parameter Set		TCR1-105
- CRC size		Reference to clause 6.11		TCR1-106
CHOICE mode	A1,A2,A3,A4,A5,A6	Parameter Set TDD		TCR1-107
Downlink HS-PDSCH Information			Rel-5	TCR1-108
DL Transport channel information common for all transport channels	A1, A2, A5,A6	Not Present		TCR1-109
DL Transport channel information common for all transport channel	A3,A4			TCR1-110
- SCCPCH TFCS		Not Present		TCR1-111
- CHOICE mode		TDD		TCR1-112
- Individual DL CCTrCH information				TCR1-113
- DL TFCS Identity				TCR1-114
- TFCS ID		2		TCR1-115
- Shared Channel Indicator		FALSE		TCR1-116
- CHOICE DL parameters		Independent		TCR1-117
- DL TFCS				TCR1-118
- CHOICE TFCI Signalling		Normal		TCR1-119
- TFCI Field 1 Information				TCR1-120
- CHOICE TFCS representation		Complete reconfiguration		TCR1-121
- TFCS complete reconfiguration				TCR1-122
information				
- CHOICE CTFC Size		Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4		TCR1-123
		Parameter Set.		
- CTFC information		This IE is repeated for TFC		TCR1-124

Information Element	Condition	Value/remark	Version	Index
- CTFC		numbers and reference to clause 6.11.5.4		
- Power offset information		Reference to clause 6.11.5.4	TCR1-125	
Added or Reconfigured TrCH information list	A1, A2, A5, A6	Parameter Set	TCR1-126	
Added or Reconfigured TrCH information list	A4	Not Present	TCR1-127	
2 TrCHs(DCH for DCCH and DCH for DTCH)		Not Present	TCR1-128	
- Added or Reconfigured DL TrCH information		2 TrCHs(DCH for DCCH and DCH for DTCH)	TCR1-129	
- Downlink transport channel type		DCH	TCR1-130	
- DL Transport channel identity		10	TCR1-131	
- CHOICE DL parameters		Same as UL	TCR1-132	
- Uplink transport channel type		DCH	TCR1-133	
- UL TrCH identity		5	TCR1-134	
- DCH quality target		-20 (-2.0)	TCR1-135	
- BLER Quality value		Not Present	TCR1-136	
- Transparent mode signalling info		DCH	TCR1-137	
- Downlink transport channel type		6	TCR1-138	
- DL Transport channel identity		Explicit	TCR1-139	
- CHOICE DL parameters		Dedicated transport channels	TCR1-140	
- TFS		Reference to clause 6.11	TCR1-141	
- CHOICE Transport channel type		Parameter Set	TCR1-142	
- Dynamic transport format information		(This IE is repeated for TF number.)	TCR1-143	
- RLC Size		Not Present	TCR1-144	
- Number of TBs and TTI List		Reference to clause 6.11	TCR1-145	
- Transmission Time Interval		Parameter Set	TCR1-146	
- Number of Transport blocks		(This IE is repeated for TF number.)	TCR1-147	
- Semi-static Transport Format information		Not Present	TCR1-148	
- Transmission time interval		Reference to clause 6.11	TCR1-149	
- Type of channel coding		Parameter Set	TCR1-150	
- Coding Rate		Reference to clause 6.11	TCR1-151	
- Rate matching attribute		Parameter Set	TCR1-152	
- CRC size		Reference to clause 6.11	TCR1-153	
- DCH quality target		Parameter Set	TCR1-154	
- BLER Quality value		-20 (-2.0)	TCR1-155	
Added or Reconfigured TrCH information list	A3		TCR1-156	
- Added or Reconfigured DL TrCH information		DCH	TCR1-157	
- Downlink transport channel type		6	TCR1-158	
- DL Transport channel identity		Explicit	TCR1-159	
- CHOICE DL parameters		Dedicated transport channels	TCR1-160	
- TFS		Reference to clause 6.11	TCR1-161	
- CHOICE Transport channel type		Parameter Set	TCR1-162	
- Dynamic transport format information		(This IE is repeated for TF number.)	TCR1-163	
- RLC Size		Not Present	TCR1-164	
- Number of TBs and TTI List		Reference to clause 6.11	TCR1-165	
- Transmission Time Interval		Parameter Set	TCR1-166	
- Number of Transport blocks		(This IE is repeated for TF number.)	TCR1-167	
- Semi-static Transport Format information		Not Present	TCR1-168	
- Transmission time interval		Reference to clause 6.11	TCR1-169	
- Type of channel coding		Parameter Set	TCR1-170	
- Coding Rate		Reference to clause 6.11	TCR1-171	
- Rate matching attribute		Parameter Set	TCR1-172	

Information Element	Condition	Value/remark	Version	Index
- CRC size		Reference to clause 6.11 Parameter Set		TCR1-173
- DCH quality target		-20 (-2.0)		TCR1-174
- BLER Quality value		Not Present		TCR1-175
- Transparent mode signalling info				TCR1-176
Frequency info	A1, A2, A3, A4, A5			TCR1-177
- Choice mode		TDD		TCR1-178
- UARFCN (Nt)		Reference to clause 5.1 Test frequencies		TCR1-179
Frequency info	A6, A7, A8, A9, A10	Not Present		TCR1-180
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
Maximum allowed UL TX power		33dBm		TCR1-184
CHOICE channel requirement	A5, A6, A7, A8, A9, A10	Not Present		TCR1-185
CHOICE channel requirement	A1, A2, A3, A4	Uplink DPCH info		TCR1-186
- Uplink DPCH power control info		TDD	Rel-4	TCR1-187
- CHOICE mode		1.28 Mcps TDD	Rel-4	TCR1-188
- CHOICE TDD option		-80 Integer(-120...-58 by step of 1)		TCR1-189
- PRXPDPCHdes		Individually Signalled		TCR1-190
- CHOICE UL OL PC info		1.28 Mcps TDD		TCR1-191
- CHOICE TDD option		1		TCR1-192
- TPC step size		20 Integer(6..43)		TCR1-193
- Primary CCPCH Tx Power		TDD		TCR1-194
- CHOICE mode		Enabled		TCR1-195
- Uplink Timing Advance Control		1.28 Mcps TDD		TCR1-196
- CHOICE Timing Advance		1		TCR1-197
- CHOICE TDD option		1		TCR1-198
- Uplink synchronization parameters		01010101		TCR1-199
- Uplink synchronization step size		0		TCR1-200
- Uplink synchronization frequency		16/15		TCR1-201
- Synchronization parameters		1.28 Mcps TDD		TCR1-202
- SYNC_UL codes bitmap		Default midamble		TCR1-203
- FPACH info		16 Integer(2, 4, 6, 8, 10, 12, 14, 16)		TCR1-204
- Timeslot number		4 Integer(1..4)		TCR1-205
- Channelisation code		-80 dBm		TCR1-206
- Midamble Shift and burst type		2		TCR1-207
- CHOICE TDD option		TCR1-208		TCR1-209
- Midamble Allocation Mode		Default midamble		TCR1-210
- Midamble configuration		16 Integer(2, 4, 6, 8, 10, 12, 14, 16)		TCR1-211
- WT		4 Integer(1..4)		TCR1-212
- PRXUpPCHdes		TCR1-213		TCR1-214
- SYNC_UL procedure		TCR1-215		TCR1-215
- Max SYNC_UL Transmissions		TCR1-216		TCR1-216
- Power Ramp Step		TCR1-217		TCR1-217
- UL CCTrCH List		TCR1-218		TCR1-218
- TFCS ID		TCR1-219		TCR1-219
- UL Target SIR		TCR1-220		TCR1-220
- Time info		TCR1-221		TCR1-221
- Activation time		TCR1-222		TCR1-222
- Duration		TCR1-223		TCR1-223
- Common timeslot info		TCR1-224		TCR1-224
- 2 nd interleaving mode		TCR1-225		TCR1-225
- TFCI coding		TCR1-226		TCR1-226
- Puncturing limit		TCR1-227		TCR1-227
- Repetition period		TCR1-228		TCR1-228
- Repetition length		TCR1-229		TCR1-229
- Uplink DPCH timeslots and code				
- Dynamic SF usage				
		FALSE		

Information Element	Condition	Value/remark	Version	Index
- First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - Modulation - SS-TPC Symbols - Additional TPC-SS Symbols - First timeslot Code List - channelisation codes - CHOICE more timeslots - UL CCTrCH List to Remove		1.28 Mcps TDD 1 OR 2 OR 3 TRUE 1.28 Mcps TDD Default midamble 16 Not Present 1.28 Mcps TDD QPSK 1 Not present Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. (SF _i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. No more timeslots Not present Not Present TDD		TCR1-230 TCR1-231 TCR1-232 TCR1-233 TCR1-234 TCR1-235 TCR1-236 TCR1-237 TCR1-238 TCR1-239 TCR1-240 TCR1-241 TCR1-242 TCR1-243 TCR1-244 TCR1-245 TCR1-246 TCR1-247 Rel-7 TCR1-248 TCR1-249 TCR1-250 TCR1-251 TCR1-252 TCR1-253 TCR1-254 TCR1-255 TCR1-256 TCR1-257 TCR1-258 TCR1-259 TCR1-260 TCR1-261 TCR1-262 TCR1-263 TCR1-264 TCR1-265 TCR1-266 TCR1-267
E-DCH Info CHOICE Mode	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	Not Present		
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	Maintain		
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - TSTD indicator - Default DPCH Offset Value	A1, A2, A3	Not Present TDD 1 Not Present TDD TDD 1.28 Mcps TDD FALSE Not Present		
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset	A4	Initialize Not Present		
- Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - TSTD indicator - Default DPCH Offset Value - CHOICE mode - Default DPCH Offset Value		TDD 1 Not Present TDD TDD 1.28 Mcps TDD FALSE TDD 0 Integer(0..7) Not Present		
Downlink information common for all radio links	A5, A6, A7, A8, A9, A10			
Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option	A1, A2, A3	TDD TDD 1.28 Mcps TDD		

Information Element	Condition	Value/remark	Version	Index
- TSTD indicator - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - Modulation - SS-TPC Symbols - Additional TPC-SS Sysbols - First timeslot channelisation codes - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator		FALSE Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) FALSE TDD 2 Integer(1..8) Now Infinite Default value is "Frame" Reference to clause 6 Parameter set Reference to clause 6 Parameter set 1 NULL 1.28 Mcps TDD 4 OR 5 OR 6 TRUE 1.28 Mcps TDD Default midamble 16 Not Present 1.28 Mcps TDD QPSK 1 Not present Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. Reference to clause 6.11 Parameter Set No more timeslots This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. 1 FALSE		TCR1-286 TCR1-287 TCR1-288 TCR1-289 TCR1-290 TCR1-291 TCR1-292 TCR1-293 TCR1-294 TCR1-295 TCR1-296 TCR1-297 TCR1-298 TCR1-299 TCR1-300 TCR1-301 TCR1-302 TCR1-303 TCR1-304 TCR1-305 TCR1-306 TCR1-307 TCR1-308 TCR1-309 TCR1-310 TCR1-311 TCR1-312 TCR1-313 TCR1-314 TCR1-315 TCR1-316 TCR1-317 TCR1-318 TCR1-319 TCR1-320 TCR1-321 TCR1-322 TCR1-323 TCR1-324
- DL CCTrCH List to Remove - SCCPCH Information for FACH	A4	Not present Not Present TDD TDD 1.28 Mcps TDD FALSE Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) FALSE TDD 2 Integer(1..8) Now	R99 and Rel-4 only	TCR1-325 TCR1-326 TCR1-327 TCR1-328 TCR1-329 TCR1-330 TCR1-331 TCR1-332 TCR1-333 TCR1-334 TCR1-335 TCR1-336 TCR1-337 TCR1-338 TCR1-339 TCR1-340 TCR1-341

Information Element	Condition	Value/remark	Version	Index
- Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - Modulation - SS-TPC Symbols - Additional TPC-SS Sysbols - First timeslot channelisation codes - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH - E-AGCH Info - CHOICE mode - E-HICH Information		Infinite Default value is "Frame" Reference to clause 6 Parameter set Reference to clause 6 Parameter set 1 NULL 1.28 Mcps TDD 4 OR 5 OR 6 TRUE 1.28 Mcps TDD Default midamble 16 Not Present 1.28 Mcps TDD QPSK 1 Not present Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. Reference to clause 6.11 Parameter Set No more timeslots This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. 1 FALSE Not present Not Present Not Present TDD Not Present		TCR1-342 TCR1-343 TCR1-344 TCR1-345 TCR1-346 TCR1-347 TCR1-348 TCR1-349 TCR1-350 TCR1-351 TCR1-352 TCR1-353 TCR1-354 TCR1-355 TCR1-356 TCR1-357 TCR1-358 TCR1-359 TCR1-360 TCR1-361 TCR1-362 TCR1-363 TCR1-364 TCR1-365 TCR1-366 TCR1-367 TCR1-368 TCR1-369 TCR1-370 TCR1-371 TCR1-372 R99 and Rel-4 only TCR1-373 Rel-6 TCR1-374 Rel-7 TCR1-375 Rel-7 TCR1-376 TCR1-377 TCR1-378 TCR1-379 TCR1-380 TCR1-381 TCR1-382 TCR1-383 TCR1-384 TCR1-385 TCR1-386 R99 and Rel-4 only TCR1-387 Rel-6 TCR1-388 Rel-7 TCR1-389 Rel-7 TCR1-390 TCR1-391 TCR1-392
- Downlink information for each radio link	A5	TDD TDD 1.28 Mcps TDD FALSE Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)		
- SCTD indicator - Downlink DPCH info for each RL - SCCPCH Information for FACH - E-AGCH Info - CHOICE mode - E-HICH Information		FALSE Not Present Not Present Not Present TDD Not Present	R99 and Rel-4 only	TCR1-385 TCR1-386 TCR1-387 Rel-6 TCR1-388 Rel-7 TCR1-389 Rel-7 TCR1-390
Downlink information per radio link list	A6, A7, A8, A9, A10	Not Present		TCR1-391
MBMS PL Service Restriction Information		Not Present	Rel-6	TCR1-392

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 - 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.		TCR3-003
- RRC message sequence number		SS provides the value of this IE, from its internal counter.		TCR3-004
Integrity protection mode info		Not Present		TCR3-005
Ciphering mode info		Not Present		TCR3-006
Activation time	A1, A2, A3	(256+CFN-(CFN MOD 8 + 8))MOD 256		TCR3-007
Activation time	A4, A5, A6, A7, A8, A9, A10	Not Present		TCR3-008
New U-RNTI		Not Present		TCR3-009
New C-RNTI	A1, A2, A3, A4, A7, A8, A9, A10	Not Present		TCR3-010
New C-RNTI	A5, A6	'1010 1010 1010 1010'		TCR3-011
New DSCH-RNTI	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	Not Present		TCR3-012
New H-RNTI	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	Not Present	Rel-5	TCR3-013
RRC State indicator	A1, A2, A3, A4	CELL_DCH		TCR3-014
RRC State indicator	A5, A6	CELL_FACH		TCR3-015
RRC State indicator	A7, A8	URA_PCH		TCR3-016
RRC State indicator	A9, A10	CELL_PCH		TCR3-017
UTRAN DRX cycle length coefficient	A1, A2, A3, A4, A5, A6	Not Present		TCR3-018
UTRAN DRX cycle length coefficient	A7, A8, A9, A10	3		TCR3-019
CN information info		Not Present		TCR3-020
URA identity		Not Present		TCR3-021
Downlink counter synchronisation info		Not Present		TCR3-022
UL Transport channel information common for all transport channels	A1, A2, A5, A6	Not Present		TCR3-023
				TCR3-024

Information Element	Condition	Value/remark	Version	Index
UL Transport channel information common for all transport channels <ul style="list-style-type: none">- PRACH TFCS- CHOICE mode- Individual UL CCTrCH information<ul style="list-style-type: none">- UL TFCS Identity- TFCS ID- Shared Channel Indicator- UL TFCS<ul style="list-style-type: none">- CHOICE <i>TFCI signalling</i>- TFCI Field 1 Information- CHOICE <i>TFCS representation</i>- TFCS complete reconfiguration information- CHOICE CTFC Size- CTFC information- CTFC- Power offset information- CHOICE Gain Factors<ul style="list-style-type: none">- Reference TFC ID- CHOICE Gain Factors<ul style="list-style-type: none">- CHOICE mode- Gain Factor β_d- Reference TFC ID- CHOICE mode- TFC subset- CHOICE Subset representation	A3, A4	Not Present TDD 1 FALSE Normal Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.11 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6. 11 Parameter Set Reference to TS34.108 clause 6. 11 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 0 Integer(0.. 3) Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) TDD 15 0 Integer(0.. 3) TDD	TCR3-025 TCR3-026 TCR3-027 TCR3-028 TCR3-029 TCR3-030 TCR3-031 TCR3-032 TCR3-033 TCR3-034 TCR3-035 TCR3-036 TCR3-037 TCR3-038 TCR3-039 TCR3-040 TCR3-041 TCR3-042 TCR3-043 TCR3-044 TCR3-045 TCR3-046 TCR3-047 TCR3-048 TCR3-049 TCR3-050 TCR3-051	
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) DCH 5 Dedicated transport channels Reference to TS34.108 clause 6.11 Parameter Set This IE is repeated for maxTF number Not Present Reference to TS34.108 clause 6.11 Parameter Set All		TCR3-052
- Added or Reconfigured UL TrCH information				TCR3-053
- Uplink transport channel type				TCR3-054
- UL Transport channel identity				TCR3-055
- TFS				TCR3-056
- CHOICE Transport channel type				TCR3-057
- Dynamic Transport format information				TCR3-058
- RLC Size				TCR3-059
- Number of TBs and TTI List				TCR3-060
- Transmission Time Interval				TCR3-061
- Number of Transport blocks				TCR3-062
- CHOICE Logical Channel list				TCR3-063
- Semi-static Transport Format information				TCR3-064
- Transmission time interval				TCR3-065
- Type of channel coding				TCR3-066
- Coding Rate				TCR3-067
- Rate matching attribute				TCR3-068
- CRC size				TCR3-069
- Uplink transport channel type				TCR3-070
- UL Transport channel identity				TCR3-071
- TFS				TCR3-072
- CHOICE Transport channel type				TCR3-073
- Dynamic Transport format information				TCR3-074
- RLC Size				TCR3-075
- Number of TBs and TTI List				TCR3-076
- Transmission Time Interval				TCR3-077
- Number of Transport blocks				TCR3-078
- CHOICE Logical Channel list				TCR3-079
- Semi-static Transport Format information				TCR3-080
- Transmission time interval				TCR3-081
- Type of channel coding				TCR3-082
- Coding Rate				TCR3-083
- Rate matching attribute				TCR3-084
- CRC size				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				TCR3-088
- UL Transport channel identity				TCR3-089
- TFS				TCR3-090
- CHOICE Transport channel type				TCR3-091
- Dynamic Transport format information				TCR3-092
- RLC Size				TCR3-093
- Number of TBs and TTI List	1 to maxTF	(This IE is repeated for TF number.)		TCR3-094
- Transmission Time Interval				TCR3-095
- Number of Transport blocks				TCR3-096
- CHOICE Logical Channel list				TCR3-097
- Semi-static Transport Format information		All		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 mode	A1,A2,A3, 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, 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 mode		TDD		TCR3-109
- Individual DL CCTrCH information				TCR3-110
- DL TFCS Identity		2		TCR3-111
- TFCS ID		FALSE		TCR3-112
- Shared Channel Indicator		Independent		TCR3-113
- CHOICE DL parameters		Normal		TCR3-114
- DL TFCS		Complete reconfiguration		TCR3-115
- CHOICE TFCI Signalling		Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 clause 6. 11Parameter Set.		TCR3-116
- TFCI Field 1 Information		This IE is repeated for TFC numbers and reference to TS34.108 clause 6. 11		TCR3-117
- CHOICE TFCS representation		Reference to TS34.108 clause 6. 11 Parameter Set		TCR3-118
- TFCS complete reconfiguration information		Not Present		TCR3-119
- CHOICE CTFC Size		Not Present		TCR3-120
- CTFC information				TCR3-121
- CTFC				TCR3-122
- Power offset information				TCR3-123
Added or Reconfigured TrCH information list	A1, A2, A5, 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) DCH 10 Same as UL DCH 5 -20 (-2.0) Not Present DCH 6 Explicit Dedicated transport channels Reference to TS34.108 clause 6.11 Parameter Set (This IE is repeated for TF number.) Not Present Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set - DCH quality target - BLER Quality value		TCR3-125 TCR3-126 TCR3-127 TCR3-128 TCR3-129 TCR3-130 TCR3-131 TCR3-132 TCR3-133 TCR3-134 TCR3-135 TCR3-136 TCR3-137 TCR3-138 TCR3-139 TCR3-140 TCR3-141 TCR3-142 TCR3-143 TCR3-144 TCR3-145 TCR3-146 TCR3-147 TCR3-148 TCR3-149 TCR3-150 TCR3-151 TCR3-152
Added or Reconfigured TrCH information list	A3			TCR3-153
- Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value		DCH 6 Explicit Dedicated transport channels Reference to TS34.108 clause 6.11 Parameter Set (This IE is repeated for TF number.) Not Present Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set -20 (-2.0)	TCR3-154 TCR3-155 TCR3-156 TCR3-157 TCR3-158 TCR3-159 TCR3-160 TCR3-161 TCR3-162 TCR3-163 TCR3-164 TCR3-165 TCR3-166 TCR3-167 TCR3-168 TCR3-169 TCR3-170 TCR3-171 TCR3-172 TCR3-173	
Frequency info	A1, A2, A3,			TCR3-174

Information Element	Condition	Value/remark	Version	Index
- Choice mode - UARFCN (Nt)	A4, A5	TDD Reference to clause 5.1 Test frequencies		TCR3-175 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		TDD		TCR3-181
- CHOICE mode		6		TCR3-182
- UL target SIR		Individually Signalled		TCR3-183
- CHOICE UL OL PC info		7.68 Mcps TDD		TCR3-184
- CHOICE TDD option		Reference to TS34.108 clause 6.11 Parameter Set (for number of TS's)		TCR3-185
- Individual timeslot interference info				TCR3-186
- Individual timeslot interference		7.68 Mcps TDD		TCR3-187
- CHOICE TDD option		As required by, Reference to TS34.108 clause 6.11Parameter Set		TCR3-188
- Timeslot number		As required by, Reference to TS34.108 clause 6.11 Parameter Set (if not specified -60 dBm)		TCR3-189
- TDD UL interference		18 Integer(6..43) (-70 dBm) Received if pathloss not specified)		TCR3-190
- Primary CCPCH Tx Power		TDD		TCR3-191
- CHOICE mode		Enabled		TCR3-192
- Uplink Timing Advance Control		7.68 Mcps TDD		TCR3-193
- CHOICE Timing Advance				TCR3-194
- CHOICE TDD option		7.68 Mcps TDD		TCR3-195
- Extended Timning Advance	-	-		TCR3-196
- CHOICE TDD mode		7.68 Mcps TDD	Rel-7	TCR3-197
- Extended UL Timing Advance	-	0	Rel-7	TCR3-198
- UL CCTrCH List				TCR3-199
- TFCS ID		1		TCR3-200
- UL Target SIR		Real (-11 .. 20 by step of 0.5dB) Reference to TS34.108 Parameter set.		TCR3-201
- Time info				TCR3-202
- Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256		TCR3-203
- Duration		Infinite		TCR3-204
- Common timeslot info		Default value is "Frame"		TCR3-205
- 2 nd interleaving mode		Reference to TS34.108 clause 6 .11 Parameter set		TCR3-206
- TFCI coding		Reference to TS34.108 clause 6.11 Parameter set		TCR3-207
- Puncturing limit		1		TCR3-208
- Repetition period		null		TCR3-209
- Repetition length				TCR3-210
- Uplink DPCH timeslots and code		FALSE		TCR3-211
- Dynamic SF usage				TCR3-212
- First individual timeslot info		7.68 Mcps TDD		TCR3-213
- Timeslot number		1 OR 2 OR 3		TCR3-214
- CHOICE TDD option		TRUE		TCR3-215
- Timeslot number				TCR3-216
- TFCI existence				TCR3-217
- Midamble shift and burst type				TCR3-218
- CHOICE TDD option		7.68 Mcps TTD	Rel-7	TCR3-219

Information Element	Condition	Value/remark	Version	Index
- Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot Code List - channelisation codes - CHOICE more timeslots - UL CCTrCH List to Remove CHOICE Mode - Downlink PDSCH information Downlink HS-PDSCH Information Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 A1, A2, A3	Default midamble 8 Not Present 7.68 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6.11 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6.11 Parameter Set. No more timeslots Not present TDD No data Not Present Maintain Not Present	Rel-7	TCR3-220 TCR3-221 TCR3-222 TCR3-223 TCR3-224 TCR3-225 TCR3-226 TCR3-227 TCR3-228 TCR3-229 TCR3-230 TCR3-231 TCR3-232 TCR3-233 TCR3-234 TCR3-235
- CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value	A4	TDD 1 Not Present TDD TDD 7.68 Mcps TDD Not Present Initialise Not Present TDD 1 Not Present TDD TDD 7.68 Mcps TDD	Rel-4 Rel-7 Rel-4	TCR3-236 TCR3-237 TCR3-238 TCR3-239 TCR3-240 TCR3-241 TCR3-242 TCR3-243 TCR3-244 TCR3-245 TCR3-246 TCR3-247 TCR3-248 TCR3-249 TCR3-250 TCR3-251 TCR3-252 TCR3-253 TCR3-254
- CHOICE mode - Default DPCH Offset Value Downlink information common for all radio links Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL	A5, A6, A7, A8, A9, A10 A1, A2, A3	TDD 0 Integer(0..7) Not Present TDD TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE		TCR3-255 TCR3-256 TCR3-257 TCR3-258 TCR3-259 TCR3-260 TCR3-261 TCR3-262 TCR3-263 TCR3-264 TCR3-265 TCR3-266 TCR3-267 TCR3-268

Information Element	Condition	Value/remark	Version	Index
<ul style="list-style-type: none"> - CHOICE mode - DL CCTrCh List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode 		<p>7.68Mcps TDD 2 Integer(1..8) Now Infinite Default value is "Frame"</p>	Rel-7	TCR3-269 TCR3-270 TCR3-271 TCR3-272 TCR3-273 TCR3-274 TCR3-275 TCR3-276
<ul style="list-style-type: none"> - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes VHCR - First individual timeslot info - Timeslot number - CHOICE TDD option 		<p>Reference to TS34.108 clause 6.11 Parameter set Reference to TS34.108 clause 6.11 Parameter set 1 NULL 7.68 Mcps TDD</p>	Rel-7	TCR3-277 TCR3-278 TCR3-279 TCR3-280 TCR3-281 TCR3-282 TCR3-283 TCR3-284
<ul style="list-style-type: none"> - Timeslot number - TFCI existence - Midamble shift and burst type <ul style="list-style-type: none"> - CHOICE TDD option - CHOICE Burst Type - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes VHCR - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH 		<p>4 OR 5 OR 6 TRUE 7.68 Mcps TDD Type 1 Default midamble 8 Not Present 7.68 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. Bitmap Reference to TS34.108 clause 6.11 Parameter Set No more timeslots Default (is previous list or all defined UL CCTrCHs.) 1 FALSE Not present Not Present</p>	Rel-7 Rel-7	TCR3-285 TCR3-286 TCR3-287 TCR3-288 TCR3-289 TCR3-290 TCR3-291 TCR3-292 TCR3-293 TCR3-294 TCR3-295 TCR3-296 TCR3-297 TCR3-298 TCR3-299 TCR3-300 TCR3-301 TCR3-302 TCR3-303 TCR3-304 TCR3-305 TCR3-306 TCR3-307 TCR3-308 TCR3-309 TCR3-310 TCR3-311 TCR3-312 TCR3-313 TCR3-314 TCR3-315 TCR3-316
Downlink information per radio link list	A4		R99 and Rel-4 only	TCR3-304 TCR3-305 TCR3-306 TCR3-307 TCR3-308 TCR3-309 TCR3-310 TCR3-311 TCR3-312 TCR3-313 TCR3-314 TCR3-315 TCR3-316
<ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option <ul style="list-style-type: none"> - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator 		<p>TDD TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE</p>	Rel-7	TCR3-313 TCR3-314 TCR3-315 TCR3-316
- Downlink DPCH info for each RL		TDD		
- CHOICE mode				
- DL CCTrCh List				

Information Element	Condition	Value/remark	Version	Index
<ul style="list-style-type: none"> - TFCS ID - Time info <ul style="list-style-type: none"> - Activation time - Duration - Common timeslot info <ul style="list-style-type: none"> - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length 		2 Integer(1..8) Now Infinite		TCR3-317 TCR3-318 TCR3-319 TCR3-320 TCR3-321 TCR3-322 TCR3-323 TCR3-324
<ul style="list-style-type: none"> - Downlink DPCH timeslots and codes <ul style="list-style-type: none"> - First individual timeslot info - Timeslot number <ul style="list-style-type: none"> - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type <ul style="list-style-type: none"> - CHOICE TDD option - CHOICE Burst Type <ul style="list-style-type: none"> - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes VHCR 		Default value is "Frame" Reference to TS34.108 clause 6.11 Parameter set Reference to TS34.108 clause 6.11 Parameter set 1 NULL		TCR3-325 TCR3-326 TCR3-327 TCR3-328 TCR3-329 Rel-7 TCR3-330 TCR3-331 TCR3-332 TCR3-333 TCR3-334 TCR3-335 TCR3-336 TCR3-337 TCR3-338 Rel-7 TCR3-339 Rel-7 TCR3-340
<ul style="list-style-type: none"> - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List <ul style="list-style-type: none"> - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH 		7.68 Mcps TDD 4 OR 5 OR 6 TRUE 7.68 Mcps TDD Type 1 Default midamble 8 Not Present 7.68 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. Bitmap Reference to TS34.108 clause 6.11 Parameter Set No more timeslots Default (is previous list or all defined UL CCTrCHs.)		TCR3-341 TCR3-342 TCR3-343 TCR3-344 TCR3-345 TCR3-346 TCR3-347 TCR3-348 TCR3-349
Downlink information per radio link list	A5	1 FALSE Not present Not Present	R99 and Rel-4 only	TCR3-350 TCR3-351 TCR3-352 TCR3-353 TCR3-354 TCR3-355 TCR3-356 TCR3-357 TCR3-358
<ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CCPCH info <ul style="list-style-type: none"> - Choice mode - Choice TDD Option <ul style="list-style-type: none"> - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator 		TDD TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE Not Present Not Present	Rel-7	TCR3-359 TCR3-360 TCR3-361
Downlink information per radio link list	A6, A7, A8, A9, A10	Not Present	R99 and Rel-4 only	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 CHOICE mode - CHOICE TDD option - Uplink Timing Advance	Not checked TDD 3.84 Mcps TDD 0	Rel-4
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 CHOICE mode - CHOICE TDD option	Not checked TDD 1.28 Mcps TDD	Rel-4
COUNT-C activation time	Not checked	Rel-4
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 CHOICE mode - CHOICE TDD option - Extended Uplink Timing Advance	Not checked TDD 7.68 Mcps TDD 0	Rel-7
COUNT-C activation time	Not checked	Rel-7
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 - TFCS Id - TFCS ID - Shared Channel Indicator	TDD 1 FALSE
DPCH/PUSCH TFCS in uplink - CHOICE Subset representation	Allowed transport format combination list 0 (The TFC is constructed from ALL TF0)
- Allowed transport format combination list	Now
Activation time for TFC subset	Not Present
TFC Control duration	

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 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 CELL UPDATE message: TM

Information Element	Value/remark
Message Type	
U-RNTI	Checked to see if it is set to the following values 0000 0000 0001B 0000 0000 0000 0001B
- SRNC identity	
- S-RNTI	
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.
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	
- T314 expired	Checked to see if it is set to 'FALSE'
- 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. 0000 0000 0001B 0000 0000 0000 0001B	
- SRNC identity		
- S-RNTI		
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	
New C-RNTI	Not Present	
New DSCH-RNTI	Not Present	R99 and Rel-4 only
New H-RNTI	Not Present	Rel-5
CHOICE mode	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	0000 0000 0000 0001B	
-URA identity		
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	
Control Channel DRX information	Not Present	Rel-8
SPS Information	Not Present	Rel-8
MIMO parameters	Not Present	Rel-8
Maximum allowed UL TX power	Not Present	
CHOICE channel requirement	Not Present	
E-DCH Info	Not Present	
CHOICE mode	TDD	Rel-6
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

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 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"
- 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/ 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 HANOVER 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 HANOVER 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
- 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	
UE information elements	
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 information elements	
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	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
- Intra-frequency measurement quantity	
- Filter coefficient	Not present (use default 0)
- CHOICE mode	TDD
- Measurement quantity list	
- Measurement quantity	Primary CCPCH RSCP
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- Cell synchronization information reporting	FALSE

Information Element	Value/remark
indicator	
- Cell Identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN reporting indicator	FALSE
- Primary CCPCH RSCP reporting indicator	FALSE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- Cell synchronization information reporting	FALSE
indicator	
- Cell Identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TGSN reporting indicator	FALSE
- Primary CCPCH RSCP reporting indicator	FALSE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not present
- Reporting cell status	Not present
- Measurement validity	Not present
- CHOICE report criteria	Intra-frequency measurement reporting criteria
- Parameters required for each event	
- Intra-frequency event identity	1g
- Triggering condition 1	Not present (this IE is MP only for event "1b" or "1f", TDD should not present)
- Triggering condition 2	Not present (this IE is MP only for event "1c", TDD should not present)
- Reporting Range Constant	Not present (this IE is MP only for event "1a" or "1b", TDD should not present)
- Cells forbidden to affect Reporting range	Not present (this IE is MP only for event "1a" or "1b", TDD should not present)
- W	Not present (this IE is MP only for event "1a" or "1b", TDD should not present)
- Hysteresis	0 (0 dBm)
- Threshold used frequency	Not present (this IE is MP only for event "1e", "1f", "1h" or "1i")
- Reporting deactivation	Not present (this IE is MP only for event "1a", TDD should not present)
threshold	
- Replacement activation	Not present (this IE is MP only for event "1c" TDD should not present)
threshold	
- Time to trigger	0 ms
- Amount of reporting	Not present (this IE is MP only for event "1a" or "1c" TDD should not present)
- Reporting interval	Not present (this IE is MP only for event "1a" or "1c", TDD should not present)
- Reporting cell status	Not present
Physical channel information elements	
DPCH Compressed mode status info	Not Present

Contents of MEASUREMENT CONTROL Message: AM (Inter-frequency measurement) (1.28 Mcps TDD)

Information Element	Value/remark
Message Type	
UE information elements	
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.

Information Element	Value/remark
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
Measurement information elements	
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	
- Inter-frequency cell info list	
- CHOICE inter-frequency cell removal	Not present
- New inter-frequency cell	
- Inter-frequency cell-id	4
- Frequency info	TDD
- CHOICE mode	Reference to table 6.1.7 for cell 4
- UARFCN (Nt)	
- 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
- Inter-frequency measurement quantity	
- CHOICE reporting criteria	Inter-frequency reporting criteria
- Inter-frequency reporting criteria	
- Filter coefficient	Not present (use default 0)
- CHOICE mode	TDD
- Measurement quantity for frequency quality	Primary CCPCH RSCP
estimate	
- Inter-frequency reporting quantity	
- UTRA Carrier RSSI	FALSE
- Frequency quality estimate	FALSE
	This parameters is not used in this release and should be set to FALSE. It shall be ignored by the UE.
	FALSE
indicator	
- Non frequency related cell reporting quantities	
- Cell synchronization information reporting	
	FALSE
- 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	FASLE
- Reporting cell status	Not present
- Measurement validity	Not present
- Inter-frequency set update	Not present (this IE only for FDD)
- CHOICE report criteria	Inter-frequency measurement reporting criteria
- Parameters required for each event	2b
- Inter-frequency event identity	-70 dBm
- Threshold used frequency	(this IE is MP for event 2b, 2d, or 2f Ranges used depend on measurement quantity. CPICH Ec/No -24..0dB CPICH/Primary CCPCH RSCP -115..-25dBm)
	0 (0) (this IE is MP for event 2a, 2b, 2d or 2f Real(0, 0.1..2.0 by step of 0.1))

Information Element	Value/remark
- Hysteresis	2 (1 dBm)
- Time to trigger	5 000 ms
- Reporting cell status	Within active set or within virtual active set or of the other RAT
frequency	1
- Maximum number of reporting cells	
- Parameters required for each non-used	
- Threshold non used frequency	
- W non-used frequency	-70 dBm (this IE is MP for event 2a, 2b, 2c or 2e) Ranges used depend on measurement quantity. CPICH Ec/No -24..0dB CPICH/Primary CCPCH RSCP -115..-25dBm. 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)
	0 (0) (this IE is MP if 2a, 2b, 2c or 2e Real(0, 0.1..2.0 by step of 0.1))
Physical channel information elements 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 - Message authentication code - RRC Message sequence number	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. 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		
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		
Measured Results		
- Intra-frequency measured results	1	
- Cell measured results		
- Cell Identity		
- Cell synchronisation information		
- CHOICE mode		
- Cell parameters Id		
- Proposed TGSN		
- Primary CCPCH RSCP		
- Pathloss		
- Timeslot list		
Measured results on RACH		
Additional measured results		
Event results		
- CHOICE event result	Intra-frequency measurement event results	
- Intra-frequency measurement event results	Ig	
- Intra-frequency event identity		
- Cell measurement event results	TDD	
- CHOICE mode		
- Primary CCPCH info		
- CHOICE mode		
- CHOICE TDD option		
- CHOICE SyncCase		
- Timeslot		
- Cell parameters ID	3.84 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0)	Rel-4
- SCTD indicator	Reference clause 6.1.4 Default settings for cell 1(TDD) FALSE	

Contents of MEASUREMENT REPORT message: AM (intra-frequency measurement) (1.28 Mcps TDD))

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.
Measurement identity	
Measured Results	
- Intra-frequency measured results	1
- Cell measured results	
- Cell Identity	
- Cell synchronization information	
- CHOICE mode	
- Cell parameters Id	
- Proposed TGSN	
- Primary CCPCH RSCP	
- Pathloss	
- Timeslot list	
Measured results on RACH	

Additional measured results	Checked that this IE is absent
Event results	Intra-frequency measurement event results
- CHOICE event result	Ig
- Intra-frequency measurement event results	
- Intra-frequency event identity	
- Cell measurement event results	TDD
- CHOICE mode	TDD
- Primary CCPCH info	1.28 Mcps TDD
- CHOICE mode	FALSE
- CHOICE TDD option	Reference in clause 6.1.4 Default settings for cell 1(TDD)
- TSTD indicator	
- Cell parameters ID	
- 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.	
1		
Measurement identity		
Measured Results		
- Intra-frequency measured results	Checked that this IE is present	
- Cell measured results	Checked that this IE is absent	
- Cell Identity	TDD	
- Cell synchronisation information	Different from the Default setting in TS34.108 clause 6.1 (TDD)	
- CHOICE mode	Checked that this IE is absent	
- Cell parameters Id	Checked that this IE is absent	
- 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 event result	Intra-frequency measurement event results	
- Intra-frequency measurement event results	Ig	
- Intra-frequency event identity		
- Cell measurement event results	TDD	
- CHOICE mode	TDD	
- Primary CCPCH info	7.68 Mcps TDD	
- CHOICE mode	Sync Case 1	
- CHOICE TDD option	Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0)	
- CHOICE SyncCase		
- Timeslot	Reference clause 6.1.4 Default settings for cell 1(TDD)	
- Cell parameters ID		
- SCTD indicator	FALSE	

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. 1	
Measurement identity	Checked that this IE is absent	
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 event result - Inter-frequency measurement event results - Inter-frequency event identity - Inter-frequency cells - Frequency info - Non frequency related measurement	Inter-frequency measurement event results 2b Reference to table 6.1.7 for cell 4	
event results - Cell measurement event results - CHOICE mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator	TDD TDD 3.84 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0) Reference clause 6.1.4 Default settings for cell 1(TDD) FALSE	Rel-4
GSM OTD reference cell	Checked that this IE is absent	Rel-4

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 - RRC Message sequence number	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. 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 event result - Inter-frequency measurement event results - Inter-frequency event identity - Inter-frequency cells - Frequency info - Non frequency related measurement event results - Cell measurement event results - CHOICE mode - Primary CCPCH info - CHOICE mode	Inter-frequency measurement event results 2b Reference to table 6.1.7 for cell 4 TDD TDD	

Information Element	Value/remark	Version
- CHOICE TDD option - TSTD indicator - Cell parameters ID - SCTD indicator	1.28 Mcps TDD FALSE Reference clause 6.1.4 Default settings for cell 1(TDD) FALSE	
GSM OTD reference cell	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		
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. 1	
Measurement identity		
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 event result	Inter-frequency measurement event results	
- Inter-frequency measurement event results	2b	
- Inter-frequency event identity	Reference to table 6.1.7 for cell 4	
- Inter-frequency cells		
- Frequency info		
- Non frequency related measurement		
event results		
- Cell measurement event results	TDD	
- CHOICE mode	TDD	
- Primary CCPCH info	7.68 Mcps TDD	
- CHOICE mode	Sync Case 1	
- CHOICE TDD option	Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0)	
- CHOICE SyncCase	Reference clause 6.1.4 Default settings for cell 1(TDD)	
- Timeslot	FALSE	
- Cell parameters ID		
- SCTD indicator		
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		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.		PCR3-003
- message authentication code		SS provides the value of this IE, from its internal counter.		PCR3-004
- RRC message sequence number				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				PCR3-024
- Choice mode		TDD		PCR3-025
- UARFCN (Nt)		Reference to clause 5.1 Test frequencies		PCR3-026
Frequency info	A1, A2, A3, A4, A5	Not Present		PCR3-027
Maximum allowed UL TX power	A6, A7, A8, A9, A10	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				PCR3-032
- UL target SIR				PCR3-033
- CHOICE UL OL PC info				PCR3-034
- CHOICE TDD option				PCR3-035
- Individual timeslot interference				PCR3-036
info		Parameter Set		
- Individual timeslot interference		3.84 Mcps TDD	Rel-4	PCR3-037
- CHOICE TDD option		As required by, Reference to TS34.108 clause 6.10.3 Parameter Set	Rel-4	PCR3-038
- Timeslot number		As required by, Reference to TS34.108 clause 6.10.3 Parameter Set (if not specified -60 dBm)		PCR3-039
- TDD UL interference		18 Integer(6..43) (-70 dBm Received if pathloss not specified)		PCR3-040
- Primary CCPCH Tx Power		TDD		PCR3-041
- CHOICE mode		Enabled		PCR3-042
- Uplink Timing Advance Control		3.84 Mcps TDD (Default)		PCR3-043
- CHOICE Timing Advance				PCR3-044
- CHOICE TDD option				PCR3-045
- UL CCTrCH List		1		PCR3-046
- TFCS ID		Real (-11 .. 20 by step of 0.5dB)		PCR3-047
- UL Target SIR		Reference to TS34.108 Parameter set.		PCR3-048
- Time info		(256+CFN-(CFN MOD 8 + 8))MOD 256		PCR3-049
- Activation time		Infinite		PCR3-050
- Duration				PCR3-051
- Common timeslot info				PCR3-052
- 2 nd interleaving mode		Default value is "Frame"		PCR3-053

Information Element	Condition	Value/remark	Version	Index
- TFCI coding - Puncturing limit - Repetition period - Repetition length - Uplink DPCH timeslots and code - Dynamic SF usage - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot Code List - channelisation codes - CHOICE more timeslots - UL CCTrCH List to Remove		Reference to TS34.108 clause 6 Parameter set Reference to TS34.108 clause 6 Parameter set 1 Null FALSE 3.84 Mcps TDD 1 OR 2 OR 3 TRUE 3.84 Mcps TDD Default midamble 16 Not Present 3.84 Mcps TDD (No Data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. No more timeslots (No Data) Not present	Rel-4 Rel-4 Rel-4	PCR3-054 PCR3-055 PCR3-056 PCR3-057 PCR3-058 PCR3-059 PCR3-060 PCR3-061 PCR3-062 PCR3-063 PCR3-064 PCR3-065 PCR3-066 PCR3-067 PCR3-068 PCR3-069 PCR3-070 PCR3-071 PCR3-072 PCR3-073 PCR3-074
Downlink radio resources				PCR3-075
CHOICE Mode	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	TDD		PCR3-076
- Downlink PDSCH information		No data		PCR3-077
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	Not Present	Rel-5	PCR3-078
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value	A1, A2, A3	Maintain Not Present TDD 1 Not Present TDD TDD 3.84 Mcps TDD (No Data) Not Present	Rel-4	PCR3-079 PCR3-080 PCR3-081 PCR3-082 PCR3-083 PCR3-084 PCR3-085 PCR3-086 PCR3-087 PCR3-088 PCR3-089 PCR3-090
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value - CHOICE mode	A4	Initialise Not Present TDD 1 Not Present TDD TDD 3.84 Mcps TDD (No Data) TDD	Rel-4	PCR3-091 PCR3-092 PCR3-093 PCR3-094 PCR3-095 PCR3-096 PCR3-097 PCR3-098 PCR3-099 PCR3-100 PCR3-101 PCR3-102 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		TDD		PCR3-107
- Choice mode		TDD		PCR3-108
- Primary CCPCH info		3.84 Mcps TDD		PCR3-109
- Choice mode		Sync Case 1		PCR3-110
- Choice TDD Option		Reference clause 6.1.4 Default settings for cell 1		PCR3-111
- CHOICE SyncCase		Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127)		PCR3-112
- Timeslot		FALSE		PCR3-113
- Cell parameters ID				PCR3-114
- SCTD indicator				PCR3-115
- Downlink DPCH info for each RL		TDD		PCR3-116
- CHOICE mode		2 Integer(1..8)		PCR3-117
- DL CCTrCh List		Now		PCR3-118
- TFCS ID		Infinite		PCR3-119
- Time info		Default value is "Frame"		PCR3-120
- Activation time		Reference to TS34.108 clause 6		PCR3-121
- Duration		Parameter set		PCR3-122
- Common timeslot info		Reference to TS34.108 clause 6		PCR3-123
- 2nd interleaving mode		Parameter set		PCR3-124
- TFCI coding		1		PCR3-125
- Puncturing limit		NULL		PCR3-126
- Repetition period				PCR3-127
- Repetition length				PCR3-128
- Downlink DPCH timeslots and codes		3.84 Mcps TDD	Rel-4	PCR3-129
- First individual timeslot info		4 OR 5 OR 6	Rel-4	PCR3-130
- Timeslot number		TRUE	Rel-4	PCR3-131
- CHOICE TDD option		3.84 Mcps TDD	Rel-4	PCR3-132
- Timeslot number				PCR3-133
- TFCI existence				PCR3-134
- Midamble shift and burst type				PCR3-135
- CHOICE TDD option				PCR3-136
- CHOICE Burst Type		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
		Bitmap		PCR3-143
		Reference to TS34.108 clause 6.10		PCR3-144
		Parameter Set		
		No more timeslots (No Data)		PCR3-145
		Default (is previous list or all defined UL CCTrCHs.)		PCR3-146
- CHOICE codes representation				PCR3-147
- Channelisation codes bitmap				PCR3-148
- CHOICE more timeslots				PCR3-149
- UL CCTrCH TPC List				PCR3-150
- UL TPC TFCS Identity		1		PCR3-151
- TFCS ID		FALSE		
- Shared Channel Indicator		Not present		
- DL CCTrCH List to Remove		Not Present	R99 and Rel-4 only	
- SCCPCH Information for FACH				
Downlink information per radio link list	A4			PCR3-152
- Downlink information for each radio link		TDD		PCR3-153
- Choice mode		TDD		PCR3-154
- Primary CCPCH info		3.84 Mcps TDD		PCR3-155
- Choice mode		Sync Case 1		PCR3-156
- Choice TDD Option			Rel-4	PCR3-157
- CHOICE SyncCase				PCR3-158

Information Element	Condition	Value/remark	Version	Index
- Timeslot - Cell parameters ID - SCTD indicator		Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE		PCR3-159 PCR3-160 PCR3-161
- Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - DL CCTrCh List to Remove - SCCPCH Information for FACH		TDD Not Present Not present Not Present		PCR3-162 PCR3-163 PCR3-164 PCR3-165 PCR3-166
Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot	A5	TDD TDD 3.84 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE	R99 and Rel-4 only	PCR3-167 PCR3-168 PCR3-169 PCR3-170 PCR3-171 PCR3-172 PCR3-173 PCR3-174
- Cell parameters ID - SCTD indicator		Not Present Not Present	Rel-4	PCR3-175 PCR3-176
- Downlink DPCH info for each RL - SCCPCH Information for FACH		Not Present	R99 and Rel-4 only	PCR3-177 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		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.		PCR1-003
- message authentication code		SS provides the value of this IE, from its internal counter.		PCR1-004
- RRC message sequence number				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 A1, A2, A3, A4, A5, A6	Not Present	Rel-5	PCR1-015
CHOICE mode		TDD	Rel-7	PCR1-016
- New E-RNTI		Not Present	Rel-7	PCR1-017
RRC State indicator	A1, A2, A3, A4	CELL_DCH		PCR1-018
RRC State indicator	A5, A6	CELL_FACH		PCR1-019
UTRAN DRX cycle length coefficient	A1, A2, A3, A4, A5, A6	Not Present		PCR1-020
CN information info		Not Present		PCR1-021
URA identity		Not Present		PCR1-022
Downlink counter synchronization info		Not Present		PCR1-023
Frequency info	A1, A2, A3, A4, A5			PCR1-024
Control Channel DRX information		Not Present	Rel-8	PCR1-025
SPS Information		Not Present	Rel-8	PCR1-026
MIMO parameters		Not Present	Rel-8	PCR1-027
- Choice mode		TDD		PCR1-028
- UARFCN (Nt)		Reference to clause 5.1 Test frequencies		PCR1-029
Frequency info	A6	Not Present		PCR1-030
Maximum allowed UL TX power		33dBm		PCR1-031
CHOICE channel requirement	A5, A6	Not Present		PCR1-032
CHOICE channel requirement	A1, A2, A3, A4	Uplink DPCH info		
- Uplink DPCH power control info				PCR1-033
- CHOICE mode		TDD		PCR1-034
- CHOICE TDD option		1.28 Mcps TDD		PCR1-035
- PRXPDPCHdes		-80 Integer(-120...-58 by step of 1)		PCR1-036
- CHOICE UL OL PC info		Individually Signalled		PCR1-037
- CHOICE TDD option		1.28 Mcps TDD		PCR1-038
- 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		Enabled		PCR1-043
- CHOICE Timing Advance		1.28 Mcps TDD		PCR1-044
- CHOICE TDD option				PCR1-045
- Uplink synchronization parameters		1		PCR1-046
- Uplink synchronization step size		1		PCR1-047
- Uplink synchronization frequency				PCR1-048
- Synchronization parameters		01010101		PCR1-049
- SYNC_UL codes bitmap				PCR1-050
- FPACH info		0		PCR1-051
- Timeslot number		16/15		PCR1-052
- Channelisation code				PCR1-053
- Midamble Shift and burst type		1.28 Mcps TDD		PCR1-054
- CHOICE TDD option		Default midamble		PCR1-055
- Midamble Allocation Mode		16 Integer(2, 4, 6, 8, 10, 12, 14, 16)		PCR1-056
- Midamble configuration		4 Integer(1..4)		PCR1-057
- WT		-80 dBm		PCR1-058
- PRXUpPCHdes		2		PCR1-059
- SYNC_UL procedure		2		PCR1-060
- Max SYNC_UL Transmissions		1		PCR1-061
- Power Ramp Step		Real (-11 .. 20 by step of 0.5 dB)		PCR1-062
- UL CCTrCH List		Reference to clause 6 Parameter set.		PCR1-063
- TFCS ID				PCR1-064
- UL Target SIR		(256+CFN-(CFN MOD 8 + 8))MOD 256		PCR1-065
- Time info		Infinite		PCR1-066
- Activation time		Default value is "Frame"		PCR1-067
- Duration		Reference to clause 6 Parameter set		PCR1-068
- Common timeslot info		Reference to clause 6 Parameter set		PCR1-069
- 2 nd interleaving mode		Reference to clause 6 Parameter set		PCR1-070
- TFCI coding		1		PCR1-071
- Puncturing limit		Null		PCR1-072
- Repetition period				PCR1-073
- Repetition length				PCR1-074

Information Element	Condition	Value/remark	Version	Index
- Uplink DPCH timeslots and code - Dynamic SF usage - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - Modulation - SS-TPC Symbols - Additional TPC-SS Symbols - First timeslot Code List - channelisation codes - CHOICE more timeslots - UL CCTrCH List to Remove		FALSE 1.28 Mcps TDD 1 OR 2 OR 3 TRUE 1.28 Mcps TDD Default midamble 16 Not Present 1.28 Mcps TDD QPSK 1 Not present Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. No more timeslots Not present Not Present		PCR1-075 PCR1-076 PCR1-077 PCR1-078 PCR1-079 PCR1-080 PCR1-081 PCR1-082 PCR1-083 PCR1-084 PCR1-085 PCR1-086 PCR1-087 PCR1-088 PCR1-089 PCR1-090 PCR1-091 PCR1-092 PCR1-093 PCR1-094 PCR1-095
E-DCH Info CHOICE Mode	A1, A2, A3, A4, A5, A6	TDD	Rel-7	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 - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - TSTD indicator - Default DPCH Offset Value	A1, A2, A3	Maintain Not Present TDD 1 Not Present TDD TDD 1.28 Mcps TDD FALSE Not Present		PCR1-098 PCR1-099 PCR1-100 PCR1-101 PCR1-102 PCR1-103 PCR1-104 PCR1-105 PCR1-106 PCR1-107 PCR1-108 PCR1-109 PCR1-110
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - TSTD indicator - Default DPCH Offset Value - CHOICE mode - Default DPCH Offset Value	A4	Initialize Not Present TDD 1 Not Present TDD TDD 1.28 Mcps TDD FALSE Not Present		PCR1-111 PCR1-112 PCR1-113 PCR1-114 PCR1-115 PCR1-116 PCR1-117 PCR1-118 PCR1-119 PCR1-120 PCR1-121 PCR1-122 PCR1-123 PCR1-124 PCR1-125
Downlink information common for all radio links Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info	A5, A6 A1, A2,A3	0 Integer(0..7) Not Present TDD		PCR1-126 PCR1-127 PCR1-128 PCR1-129 PCR1-130

Information Element	Condition	Value/remark	Version	Index
- Choice mode - Choice TDD Option - TSTD indicator - Cell parameters ID - SCTD indicator		TDD 1.28 Mcps TDD FALSE Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) FALSE		PCR1-131 PCR1-132 PCR1-133 PCR1-134 PCR1-135 PCR1-136 PCR1-137 PCR1-138 PCR1-139 PCR1-140 PCR1-141 PCR1-142 PCR1-143 PCR1-144 PCR1-145 PCR1-146 PCR1-147 PCR1-148 PCR1-149 PCR1-150 PCR1-151 PCR1-152 PCR1-153 PCR1-154 PCR1-155 PCR1-156 PCR1-157 PCR1-158 PCR1-159 PCR1-160 PCR1-161 PCR1-162 PCR1-163
- Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - Modulation - SS-TPC Symbols - Additional TPC-SS Sysbols - First timeslot channelisation codes - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH - E-AGCH Info - CHOICE mode - E-HICH Information		TDD 2 Integer(1..8) Now Infinite Default value is "Frame" Reference to clause 6 Parameter set Reference to clause 6 Parameter set 1 NULL		
Downlink information per radio link list	A4	1.28 Mcps TDD 4 OR 5 OR 6 TRUE 1.28 Mcps TDD Default midamble 16 Not Present 1.28 Mcps TDD QPSK 1 Not present Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. Reference to clause 6.11 Parameter Set No more timeslots This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.		PCR1-164 PCR1-165 PCR1-166 PCR1-167 PCR1-168 PCR1-169 PCR1-170 PCR1-171 PCR1-172 R99 and Rel-4 only Rel-4 only Rel-6 Rel-7 Rel-7
- Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - TSTD indicator - Cell parameters ID - SCTD indicator		1 FALSE Not present Not Present TDD TDD 1.28 Mcps TDD FALSE Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) FALSE		PCR1-173 PCR1-174 PCR1-175 PCR1-176 PCR1-177 PCR1-178 PCR1-179 PCR1-180 PCR1-181 PCR1-182 PCR1-183 PCR1-184 PCR1-185 PCR1-186 PCR1-187 PCR1-188 PCR1-189
- Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - DL CCTrCH List to Remove - SCCPCH Information for FACH		TDD Not Present Not present Not Present	R99 and Rel-4 only	PCR1-190

Information Element	Condition	Value/remark	Version	Index
- E-AGCH Info - CHOICE mode - E-HICH Information		Not Present TDD Not Present	Rel-6 Rel-7 Rel-7	PCR1-191 PCR1-192 PCR1-193
Downlink information per radio link list	A5			PCR1-194 PCR1-195 PCR1-196 PCR1-197 PCR1-198 PCR1-199 PCR1-200
- Downlink information for each radio link		TDD		PCR1-201 PCR1-202 PCR1-203
- Choice mode		TDD		PCR1-204
- Primary CCPCH info		1.28 Mcps TDD	Rel-6	PCR1-205
- Choice mode		FALSE	Rel-7	PCR1-206
- Choice TDD Option		Ref. to the Default setting in clause 6.1 (TDD)	Rel-7	PCR1-207
- TSTD indicator		Integer(0..127)		PCR1-208
- Cell parameters ID		FALSE		PCR1-209
- SCTD indicator		Not Present		
- Downlink DPCH info for each RL		Not Present	R99 and Rel-4 only	
- SCCPCH Information for FACH		Not Present		
- E-AGCH Info		Not Present	Rel-6	
- CHOICE mode		TDD	Rel-7	
- E-HICH Information		Not Present	Rel-7	
Downlink information per radio link list	A6	Not Present		
MBMS PL Service Restriction Information		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"

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		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.		PCR7-003
- message authentication code		SS provides the value of this IE, from its internal counter.		PCR7-004
- RRC message sequence number		Not Present		PCR7-005
Integrity protection mode info		Not Present		PCR7-006
Ciphering mode info		Not Present		PCR7-007
Activation time	A1, A2, A3	(256+CFN-(CFN MOD 8 + 8))MOD 256		PCR7-008
Activation time	A4, A5, A6, A7, A8, A9, A10	Not Present		PCR7-009
New U-RNTI		Not Present		PCR7-010
New C-RNTI	A1, A2, A3, A4, A7, A8, A9, A10	Not Present		PCR7-011
New C-RNTI	A5, A6	'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	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	Not Present	Rel-5	PCR7-014

Information Element	Condition	Value/remark	Version	Index
RRC State indicator	A1, A2, A3, A4	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	A7, A8, A9, A10	3 Not Present Not Present Not Present		PCR7-020
CN information info				PCR7-021
URA identity				PCR7-022
Downlink counter synchronisation info				PCR7-023
Frequency info	A1, A2, A3, A4, A5	TDD Reference to clause 5.1 Test frequencies		PCR7-024
- Choice mode				PCR7-025
- UARFCN (Nt)				PCR7-026
Frequency info	A6, A7, A8, A9, A10	Not Present 33dBm		PCR7-027
Maximum allowed UL TX power				PCR7-028
CHOICE channel requirement	A5, A6, A7, A8, A9, A10	Not Present		PCR7-029
CHOICE channel requirement	A1, A2, A3, A4	Uplink DPCH info		PCR7-030
- Uplink DPCH power control info				PCR7-031
- CHOICE mode				PCR7-032
- UL target SIR				PCR7-033
- CHOICE UL OL PC info				PCR7-034
- CHOICE TDD option				PCR7-035
- Individual timeslot interference				PCR7-036
info		Parameter Set		
- Individual timeslot interference		7.68 Mcps TDD	Rel-7	PCR7-037
- CHOICE TDD option		As required by, Reference to TS34.108 clause 6.11 Parameter Set	Rel-7	PCR7-038
- Timeslot number		As required by, Reference to TS34.108 clause 6.11 Parameter Set (if not specified -60 dBm)		PCR7-039
- TDD UL interference		18 Integer(6..43) (-70 dBm Received if pathloss not specified)		PCR7-040
- Primary CCPCH Tx Power		TDD		PCR7-041
- CHOICE mode				PCR7-042
- Uplink Timing Advance Control				PCR7-043
- CHOICE Timing Advance				PCR7-044
- CHOICE TDD option				PCR7-045
- Extended UL Timing Advance				PCR7-046
- UL CCTrCH List		Enabled	Rel-7	PCR7-047
- TFCS ID		7.68 Mcps TDD	Rel-7	PCR7-048
- UL Target SIR		0		PCR7-049
- Time info		1		PCR7-050
- Activation time		Real (-11 .. 20 by step of 0.5dB)		PCR7-051
- Duration		Reference to TS34.108 Parameter set.		PCR7-052
- Common timeslot info		(256+CFN-(CFN MOD 8 + 8))MOD 256		PCR7-053
- 2 nd interleaving mode		Infinite		PCR7-054
- TFCI coding				PCR7-055
- Puncturing limit		Default value is "Frame" Reference to TS34.108 clause 6 Parameter set		
- Repetition period		Reference to TS34.108 clause 6 Parameter set		PCR7-056
- Repetition length		1		PCR7-057
- Uplink DPCH timeslots and code		Null		PCR7-058
- Dynamic SF usage				PCR7-059
- First individual timeslot info		FALSE		PCR7-060
- Timeslot number		7.68 Mcps TDD	Rel-7	PCR7-061
- CHOICE TDD option		1 OR 2 OR 3		PCR7-062
- Timeslot number				PCR7-063
- TFCI existence		TRUE		PCR7-064
				PCR7-065

Information Element	Condition	Value/remark	Version	Index
- Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot Code List - channelisation codes - CHOICE more timeslots - UL CCTrCH List to Remove		7.68 Mcps TDD Default midamble 8 Not Present 7.68 Mcps TDD (No Data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. No more timeslots (No Data) Not present	Rel-7 Rel-7	PCR7-066 PCR7-067 PCR7-068 PCR7-069 PCR7-070 PCR7-071 PCR7-072 PCR7-073 PCR7-074 PCR7-075
Downlink radio resources				PCR7-076
CHOICE Mode	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	TDD		PCR7-077
- Downlink PDSCH information		No data		PCR7-078
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	Not Present	Rel-5	PCR7-079
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value	A1, A2, A3	Maintain Not Present TDD 1 Not Present TDD TDD 7.68 Mcps TDD (No Data) Not Present	Rel-7	PCR7-080 PCR7-081 PCR7-082 PCR7-083 PCR7-084 PCR7-085 PCR7-086 PCR7-087 PCR7-088 PCR7-089 PCR7-090 PCR7-091
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value - CHOICE mode - Default DPCH Offset Value	A4	Initialise Not Present TDD 1 Not Present TDD TDD 7.68 Mcps TDD (No Data) TDD 0 Integer(0..7)	Rel-7	PCR7-092 PCR7-093 PCR7-094 PCR7-095 PCR7-096 PCR7-097 PCR7-098 PCR7-099 PCR7-100 PCR7-101 PCR7-102 PCR7-103 PCR7-104 PCR7-105
Downlink information common for all radio links	A5, A6, A7, A8, A9, A10	Not Present		PCR7-106
Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot	A1, A2,A3	TDD TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1	Rel-7	PCR7-107 PCR7-108 PCR7-109 PCR7-110 PCR7-111 PCR7-112 PCR7-113 PCR7-114

Information Element	Condition	Value/remark	Version	Index
- Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes		Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE 7.68 TDD 2 Integer(1..8) Now Infinite Default value is "Frame" Reference to TS34.108 clause 6 Parameter set Reference to TS34.108 clause 6 Parameter set 1 NULL	Rel-7	PCR7-115 PCR7-116 PCR7-117 PCR7-118 PCR7-119 PCR7-120 PCR7-121 PCR7-122 PCR7-123 PCR7-124 PCR7-125 PCR7-126 PCR7-127 PCR7-128 PCR7-129 PCR7-130
VHCR - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type		7.68 Mcps TDD 4 OR 5 OR 6 TRUE 7.68 Mcps TDD	Rel-7	PCR7-131 PCR7-132 PCR7-133 PCR7-134 PCR7-135 PCR7-136 PCR7-137
VHCR - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes		Default midamble 8 Not Present 7.68 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6.11 Parameter Set.	Rel-7	PCR7-139 PCR7-140 PCR7-141 PCR7-142 PCR7-143
VHCR - CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH	A4	Bitmap Reference to TS34.108 clause 6.11 Parameter Set No more timeslots (No Data) Default (is previous list or all defined UL CCTrCHs.) 1 FALSE Not present Not Present	R99 and Rel-4 only	PCR7-144 PCR7-145 PCR7-146 PCR7-147 PCR7-148 PCR7-149 PCR7-150 PCR7-151 PCR7-152
Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator		TDD TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE	Rel-7	PCR7-153 PCR7-154 PCR7-155 PCR7-156 PCR7-157 PCR7-158 PCR7-159 PCR7-160 PCR7-161 PCR7-162
- Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - DL CCTrCH List to Remove - SCCPCH Information for FACH		TDD Not Present Not present Not Present	R99 and Rel-4 only	PCR7-163 PCR7-164 PCR7-165 PCR7-166 PCR7-167
Downlink information per radio link list	A5		R99 and Rel-4 only	PCR7-168

Information Element	Condition	Value/remark	Version	Index
- Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator		TDD TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE Not Present Not Present	Rel-7	PCR7-169 PCR7-170 PCR7-171 PCR7-172 PCR7-173 PCR7-174 PCR7-175 PCR7-176 PCR7-177 PCR7-178 PCR7-179
- Downlink DPCH info for each RL - SCCPCH Information for FACH			R99 and Rel-4 only	
Downlink information per radio link list	A6, A7, A8, A9, A10	Not Present		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 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 - RRC Message sequence number	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. 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 CHOICE mode - CHOICE TDD option - Uplink Timing Advance	Not checked TDD 3.84 Mcps TDD 0	Rel-4
COUNT-C activation time Radio bearer uplink ciphering activation time info Uplink counter synchronisation info	Not checked Not checked Not checked	

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (1.28 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.	

Information Element	Value/remark	Version
- 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			RBR3-00
UE Information elements				RBR3-00
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3		RBR3-00
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.		RBR3-00
- message authentication code				RBR3-00
- RRC message sequence number		SS provides the value of this IE, from its internal counter.		RBR3-00
Integrity protection mode info		Not Present		RBR3-00

Information Element	Condition	Value/remark	Version	Index
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 MD Integer(0..255) default is 'now'		RBR3-0
New U-RNTI		Not Present		RBR3-0
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, A4, A5, A6	Not Present	Rel-5	RBR3-0
RRC State indicator	A1, A2, A3, A4	CELL_DCH Indicates to a UE the RRC state to be entered.		RBR3-0
RRC State indicator	A5, A6	CELL_FACH		RBR3-0
UTRAN DRX cycle length coefficient	A1,A2,A3, A4,A5,A6	Not Present A coefficient in the formula to count the paging occasions to be used by a specific UE		RBR3-0
CN information elements		Not Present		RBR3-0
CN information info		Not Present		RBR3-0
UTRAN mobility information elements		Not Present		RBR3-0
URA identity		Not Present		RBR3-0
CHOICE specification mode		[FFS]	Rel-5	RBR3-0
RB information elements				RBR3-0
RAB information to reconfigure list		Not Present		RBR3-0
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". (UM DCCH for RRC) 1 Not Present Not Present Not Present Not Present Not Present (AM DCCH for RRC) 2 Not Present Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT Low priority) 4 Not Present Not Present Not Present Not Present Not Present Not Present (TM DTCH) 10 Not Present Not Present Not Present Not Present Not Present		RBR3-0
RB information to reconfigure list	A2	TS25.331 specifies that "Although this IE is not always required, need is MP to		RBR3-0

Information Element	Condition	Value/remark	Version	Index
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue				RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present Not Present Not Present Not Present Not Present Not Present		RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		(AM DCCH for RRC) 2		RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present Not Present Not Present Not Present Not Present		RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		(AM DCCH for NAS_DT High priority) 3		RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present Not Present Not Present Not Present Not Present		RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		(AM DCCH for NAS_DT Low priority) 4		RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present Not Present Not Present Not Present Not Present		RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		(TM DTCH) 10		RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present Not Present Not Present Not Present Not Present		RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		(TM DTCH) 11		RBR3-0
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present Not Present Not Present Not Present Not Present		RBR3-1
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		(TM DTCH) (This IE is needed for 12.2 kbps and 10.2 kbps) 12		RBR3-1
- RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present Not Present Not Present Not Present Not Present		RBR3-1
- RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present		RBR3-1
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". (UM DCCH for RRC) 1		RBR3-1
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present Not Present Not Present Not Present Not Present		RBR3-1
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		(AM DCCH for RRC) 2		RBR3-1
- RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present Not Present Not Present		RBR3-1

Information Element	Condition	Value/remark	Version	Index
- RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue		Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT Low priority) 4 Not Present Not Present Not Present Not Present Not Present Not Present (AM DTCH) 20 Not Present Not Present Not Present Not Present Not Present Not Present		RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1; RBR3-1;
RB information to be affected	A1, A2, A3,A4,A5, A6	Not Present		RBR3-1
TrCH Information Elements				RBR3-1
Uplink transport channels				RBR3-1
UL Transport channel information for all transport channels	A1, A2, A5,A6	Not Present		RBR3-1
UL Transport channel information for all transport channels - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information	A3, A4	Not Present TDD		RBR3-1; RBR3-1; RBR3-1;
- UL TFCS Identity				RBR3-1
- TFCS ID		1		RBR3-1
- Shared Channel Indicator		FALSE		RBR3-1
- UL TFCS				RBR3-1
- CHOICE TFCI signalling		Normal (another option "split" only for FDD)		RBR3-1
- TFCI Field 1 Information				RBR3-1
- CHOICE TFCS representation		Complete reconfiguration		RBR3-1
information - TFCS complete reconfiguration - CHOICE CTFC Size		Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.3.4 Parameter Set.		RBR3-1
- CTFC information		This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.3.4 Parameter Set		RBR3-1
- CTFC		Reference to TS34.108 clause 6.10.3.4 Parameter Set		RBR3-1
- Power offset information - CHOICE Gain Factors		Computed Gain Factors (The last TFC is set to Signalled Gain Factors)		RBR3-1
- Reference TFC ID - CHOICE Gain Factors		0 Integer(0.. 3) Signalled Gain Factors (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)		RBR3-1
- CHOICE mode		TDD		RBR3-1

Information Element	Condition	Value/remark	Version	Index
Added or Reconfigured UL TrCH information		Parameter Set		
- Uplink transport channel type	A3	(DCH for DTCH) DCH 1	RBR3-2	
- UL Transport channel identity		Dedicated transport channels	RBR3-2	
- TFS		Reference to TS34.108 clause 6.10.3	RBR3-2	
- CHOICE Transport channel type		Parameter Set	RBR3-2	
- Dynamic Transport format information		(This IE is repeated for TFI number.)	RBR3-2	
- RLC Size		Not Present	RBR3-2	
- Number of TBs and TTI List		Reference to TS34.108 clause 6.10.3	RBR3-2	
- Transmission Time Interval		Parameter Set	RBR3-2	
- Number of Transport blocks		(This IE is repeated for TFI number.)	RBR3-2	
- CHOICE Logical Channel list		Not Present	RBR3-2	
- Semi-static Transport Format information		Reference to TS34.108 clause 6.10.3	RBR3-2	
- Transmission time interval		Parameter Set	RBR3-2	
- Type of channel coding		All	RBR3-2	
- Coding Rate		Reference to TS34.108 clause 6.10.3	RBR3-2	
- Rate matching attribute		Parameter Set	RBR3-2	
- CRC size		Reference to TS34.108 clause 6.10.3	RBR3-2	
		Parameter Set	RBR3-2	
CHOICE mode	A1,A2,A3, A4,A5,A6	TDD	RBR3-2	
- (no data)			RBR3-2	
Downlink transport channels				
DL Transport channel information common for all transport channel	A1, A2, A5, A6	Not Present	RBR3-2	
DL Transport channel information common for all transport channel	A3,A4		RBR3-2	
- SCCPCH TFCS		Not Present	RBR3-2	
- CHOICE mode		TDD	RBR3-2	
- Individual DL CCTrCH information			RBR3-2	
- DL TFCS Identity			RBR3-2	
- TFCS ID			RBR3-2	
- Shared Channel Indicator			RBR3-2	
- CHOICE DL parameters		Independent	RBR3-2	
- DL TFCS			RBR3-2	
- CHOICE TFCI signalling		Normal	RBR3-2	
		(Normal' : meaning no split in the TFCI field either 'Logical' or 'Hard')	RBR3-2	
- TFCI Field 1 Information			RBR3-2	
- CHOICE TFCS representation		Complete reconfiguration	RBR3-2	
- TFCS complete reconfiguration information			RBR3-2	
- CHOICE CTFC Size		Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 clause 6.10.3.4	RBR3-2	
		Parameter Set.	RBR3-2	
- CTFC information		This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.3.4	RBR3-2	
		Reference to TS34.108 clause 6.10.3.4	RBR3-2	
- CTFC		Parameter Set	RBR3-2	
- Power offset		Not Present	RBR3-2	
information				
Deleted TrCH information list			RBR3-2	
Deleted DL TrCH information	A1, A2, A3, A4, A5, A6	Not Present	RBR3-2	
Added or Reconfigured TrCH information list			RBR3-2	
Added or Reconfigured DL TrCH information	A1, A2, A5, A6	Not Present	RBR3-2	
Added or Reconfigured DL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)	RBR3-2	

Information Element	Condition	Value/remark	Version	Index
- Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes		4 OR 5 OR 6 TRUE 3.84 Mcps TDD Type 1 Default midamble 16 Not Present 3.84 Mcps TDD (No Data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. Bitmap Reference to TS34.108 clause 6.10 Parameter Set No more timeslots (No Data) Default (is previous list or all defined UL CCTrCHs.)	Rel-4	RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4;
- CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH		1 FALSE Not present Not Present	R99 and Rel-4 only	RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4;
Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - TSTD indicator - Cell parameters ID - SCTD indicator	A5	TDD TDD 3.84 Mcps TDD FALSE Reference clause 6.1.4 Default settings for cell 1 FALSE	Rel-4	RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; RBR3-4; 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 - Downlink information for each radio link	A6	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
UE Information elements				
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3		RBR1-002 RBR1-003
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.		RBR1-004 RBR1-005
- message authentication code				

Information Element	Condition	Value/remark	Version	Index
- 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' Not Present	Rel-6	RBR1-011
New U-RNTI	A1, A2, A3,	Not Present		RBR1-012
New C-RNTI	A4,	Not Present		RBR1-013
New C-RNTI	A5, A6	'1010 1010 1010 1010'		RBR1-014
New DSCH-RNTI	A1, A2, A3,	Not Present		RBR1-015
New H-RNTI	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 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 A coefficient in the formula to count the paging occasions to be used by a specific UE		RBR1-021
CN information elements				RBR1-022
CN information info		Not Present		RBR1-023
UTRAN mobility information elements				RBR1-024
URA identity		Not Present		RBR1-025
CHOICE specification mode		[FFS]	Rel-5	RBR1-026
RB information elements				RBR1-027
RAB information to reconfigure list		Not Present		RBR1-028
RB information to reconfigure list		TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".		RBR1-029
- RB information to reconfigure		(UM DCCH for RRC)		RBR1-030
- RB identity		1		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

Information Element	Condition	Value/remark	Version	Index
- 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". (UM DCCH for RRC) 1		RBR1-065
- RB information to reconfigure		Not Present		RBR1-066
- RB identity		Not Present		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) 2		RBR1-073
- RB identity		Not Present		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) 3		RBR1-080
- RB identity		Not Present		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) 4		RBR1-087
- RB identity		Not Present		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) 10		RBR1-094
- RB identity		Not Present		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) 11		RBR1-101
- RB identity		Not Present		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) (This IE is needed for 12.2 kbps and 10.2 kbps) 12		RBR1-108
- RB identity		Not Present		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". (UM DCCH for RRC) 1		RBR1-115
- RB information to reconfigure		Not Present		RBR1-116
- RB identity		Not Present		RBR1-117
- PDCP info		Not Present		RBR1-118
- PDCP SN info		Not Present		RBR1-119
- RLC info		Not Present		RBR1-120

Information Element	Condition	Value/remark	Version	Index
- RB mapping info		Not Present		RBR1-121
- RB stop/continue		Not Present		RBR1-122
- RB information to reconfigure		(AM DCCH for RRC)		RBR1-123
- RB identity		2		RBR1-124
- PDCP info		Not Present		RBR1-125
- PDCP SN info		Not Present		RBR1-126
- RLC info		Not Present		RBR1-127
- RB mapping info		Not Present		RBR1-128
- RB stop/continue		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	A1, A2, A3,A4,A5,A6	Not Present		RBR1-151
TrCH Information Elements				RBR1-152
Uplink transport channels				RBR1-153
UL Transport channel information for all transport channels	A1, A2, A5,A6	Not Present		RBR1-154
UL Transport channel information for all transport channels	A3, A4			RBR1-155
information	- 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	Normal		RBR1-162
	- CHOICE TFCI signalling	(another option "split" only for FDD)		RBR1-163
	- TFCI Field 1 Information	Complete reconfiguration		RBR1-164
	- CHOICE TFCS representation			RBR1-165
	- TFCS complete reconfiguration			RBR1-166
	- CHOICE CTFC Size	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	Computed Gain Factors		RBR1-170
	- CHOICE Gain Factors	(The last TFC is set to Signalled Gain Factors)		RBR1-171
	- Reference TFC ID	0 Integer(0..3)		RBR1-172

Information Element	Condition	Value/remark	Version	Index
- CHOICE Gain Factors		Signalled Gain Factors (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)		RBR1-173
- CHOICE mode		TDD		RBR1-174
- Gain Factor β_d		15		RBR1-175
- Reference TFC ID		0 Integer(0.. 3)		RBR1-176
- CHOICE mode		TDD		RBR1-177
- TFC subset		Minimum allowed Transport format combination index		RBR1-178
- CHOICE Subset representation		Not present		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		Not Present		RBR1-185
Deleted UL TrCH information	A1, A2, A3, A4, A5,A6	Not Present		RBR1-186
Added or Reconfigured TrCH information list	A1, A2, A5,A6	Not Present		RBR1-187
Added or Reconfigured UL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 5 Dedicated transport channels Reference to clause 6.11.5 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.11.5 Parameter Set All		RBR1-188
Added or Reconfigured UL TrCH information		Reference to clause 6.11.5 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.11.5 Parameter Set All		RBR1-189
- Uplink transport channel type		RBR1-190		
- UL Transport channel identity		RBR1-191		
- TFS		RBR1-192		
- CHOICE Transport channel type		RBR1-193		
- Dynamic Transport format information		RBR1-194		
- RLC Size		RBR1-195		
- Number of TBs and TTI List		RBR1-196		
- Transmission Time Interval		RBR1-197		
- Number of Transport blocks		RBR1-198		
- CHOICE Logical channel list		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		Dedicated transport channels		RBR1-208
- CHOICE Transport channel type		Reference to clause 6.11.5 Parameter Set		RBR1-209
- Dynamic Transport format information		(This IE is repeated for TFI number.)		RBR1-210
- RLC Size		Not Present		RBR1-211
- Number of TBs and TTI List		Reference to clause 6.11.5 Parameter Set		RBR1-212
- Transmission Time Interval		(This IE is repeated for TFI number.)		RBR1-213
- Number of Transport blocks		Not Present		RBR1-214
- CHOICE Logical channel list		Reference to clause 6.11.5 Parameter Set		RBR1-215
- Semi-static Transport Format information		All		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

Information Element	Condition	Value/remark	Version	Index
- 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		(DCH for DTCH)		RBR1-222
- Uplink transport channel type	A3	DCH		RBR1-223
- UL Transport channel identity		1		RBR1-224
- TFS		Dedicated transport channels		RBR1-225
- CHOICE Transport channel type		Reference to clause 6.11.5 Parameter Set		RBR1-226
- Dynamic Transport format information		(This IE is repeated for TFI number.)		RBR1-227
- RLC Size		Not Present		RBR1-228
- Number of TBs and TTI List		Reference to clause 6.11.5 Parameter Set		RBR1-229
- Transmission Time Interval		(This IE is repeated for TFI number.)		RBR1-230
- Number of Transport blocks		Not Present		RBR1-231
- CHOICE Logical channel list		Reference to clause 6.11.5 Parameter Set		RBR1-232
- Semi-static Transport Format information		All		RBR1-233
- Transmission time interval		Reference to clause 6.11.5 Parameter Set		RBR1-234
- Type of channel coding		Reference to clause 6.11.5 Parameter Set		RBR1-235
- Coding Rate		Reference to clause 6.11.5 Parameter Set		RBR1-236
- Rate matching attribute		Reference to clause 6.11.5 Parameter Set		RBR1-237
- CRC size		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
Downlink transport channels				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				RBR1-244
- CHOICE mode				RBR1-245
- Individual DL CCTrCH information				RBR1-246
- DL TFCS Identity				RBR1-247
- TFCS ID				RBR1-248
- Shared Channel Indicator				RBR1-249
- CHOICE <i>DL parameters</i>				RBR1-250
- DL TFCS				RBR1-251
- CHOICE <i>TFCI signalling</i>				RBR1-252
- TFCI Field 1 Information				RBR1-253
- CHOICE <i>TFCS representation</i>				RBR1-254
- TFCS complete				RBR1-255
reconfiguration information				
- CHOICE CTFC Size		Independent		
- CTFC information		Normal (Normal' : meaning no split in the TFCI field either 'Logical' or 'Hard')		
- CTFC		Complete reconfiguration		
- Power offset				
information				
Deleted TrCH information list		Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set.		
Deleted DL TrCH information	A1, A2, A3, A4, A5,A6	This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set		RBR1-257
Added or Reconfigured TrCH information list	A1, A2, A5,	Reference to clause 6.11.5.4 Parameter Set		RBR1-258
Added or Reconfigured DL TrCH information		Not Present		RBR1-259
				RBR1-260
				RBR1-261
				RBR1-262
				RBR1-263

Information Element	Condition	Value/remark	Version	Index
Added or Reconfigured DL TrCH information	A6 A4	2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 10 Same as UL DCH 5 Not Present DCH 6 Explicit Dedicated transport channel Reference to clause 6.11.5 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.11.5 Parameter Set Reference to clause 6.11.5 Parameter Set -20 (-2.0)		RBR1-264 RBR1-265 RBR1-266 RBR1-267 RBR1-268 RBR1-269 RBR1-270 RBR1-271 RBR1-272 RBR1-273 RBR1-274 RBR1-275 RBR1-276 RBR1-277 RBR1-278 RBR1-279 RBR1-280 RBR1-281 RBR1-282 RBR1-283 RBR1-284 RBR1-285 RBR1-286 RBR1-287 RBR1-288 RBR1-289 RBR1-290 RBR1-291 RBR1-292 RBR1-293 RBR1-294
Added or Reconfigured DL TrCH information	A3	DCH 6 Explicit		RBR1-295 RBR1-296 RBR1-297 RBR1-298 RBR1-299 RBR1-300 RBR1-301 RBR1-302 RBR1-303 RBR1-304 RBR1-305 RBR1-306 RBR1-307 RBR1-308 RBR1-309 RBR1-310
Preconfiguration	A1,A2,A3,A4, A5,A6	-20 (-2.0) [FFS]	Rel-5	RBR1-311
PhyCH information elements	A1,A2,A3,A4,			RBR1-312
Frequency info				RBR1-313

Information Element	Condition	Value/remark	Version	Index
- CHOICE mode - UARFCN (Nt)	A5	TDD Reference to clause 5.1 Test frequencies Not Present		RBR1-314 RBR1-315
Frequency info Control Channel DRX information SPS Information	A6	Not Present Not Present Not Present	Rel-8 Rel-8	RBR1-316
Uplink radio resources				RBR1-317
Maximum allowed UL TX power	A1,A2,A3,A4, A5,A6	33dBm		RBR1-318
CHOICE channel requirement	A1, A2, A3, A4	Uplink DPCH info		RBR1-319
-Uplink DPCH power control info - CHOICE mode - CHOICE TDD option - PRXPDPCHdes - CHOICE <i>UL OL PC info</i> - Broadcast UL OL PC info - CHOICE mode		TDD 1.28 Mcps TDD Integer(-120...-58 by step of 1) Null TDD	Rel-4	RBR1-320 RBR1-321 RBR1-322 RBR1-323 RBR1-324 RBR1-325 RBR1-326
- Uplink Timing Advance Control - CHOICE <i>Timing Advance</i> - CHOICE <i>TDD option</i>		Enabled 1.28 Mcps TDD		RBR1-327 RBR1-328 RBR1-329
- Uplink synchronization parameters		1		RBR1-330
- Uplink synchronization step size		1		RBR1-331
- Uplink synchronization frequency		Not Present		RBR1-332
- Synchronization parameters				RBR1-333
- UL CCTrCH List				RBR1-334
- TFCS ID		1		RBR1-335
- UL Target SIR		Real (-11 .. 20 by step of 0.5dB) Reference to clause 6 Parameter set.		RBR1-336
- Time info				RBR1-337
- Activation time				RBR1-338
- Duration				RBR1-339
- Common timeslot info				RBR1-340
- 2 nd 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				RBR1-347
- First individual timeslot info		FALSE		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		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 Sysbols		Not present		RBR1-361
- First timeslot Code List		Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in 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		Not Present		RBR1-366
E-DCH Info		Not Present		RBR1-367
Downlink radio resources				RBR1-368
CHOICE Mode	A1,A2,A3,A4,	TDD	Rel-7	RBR1-369

Information Element	Condition	Value/remark	Version	Index
- Downlink PDSCH information Downlink HS-PDSCH Information	A5,A6	No date Not Present	Rel-5	RBR1-370 RBR1-371
Downlink information common for all radio links	A1, A2, A3, A4, A5, A6	Not Present		RBR1-372
Downlink information common for all radio links	A5, A6	Maintain		RBR1-373
- Downlink DPCH info common for all RL	A1, A2, A3	Not Present		RBR1-374
- Timing indicat		Maintain		RBR1-375
- CFN-targetSFN frame offset		Not Present		RBR1-376
- Downlink DPCH power control information				RBR1-377
- CHOICE mode		TDD		RBR1-378
- TPC Step Size		1		RBR1-379
- MAC-d HFN initial value		Not Present		RBR1-380
- CHOICE mode		TDD		RBR1-381
- CHOICE mode		TDD		RBR1-382
- CHOICE TDD option		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		Initialize		RBR1-387
- Timing indication		Not Present		RBR1-388
- CFN-targetSFN frame offset				RBR1-389
- Downlink DPCH power control information				RBR1-390
- CHOICE mode		TDD		RBR1-391
- TPC Step Size		1		RBR1-392
- MAC-d HFN initial value		Not Present		RBR1-393
- CHOICE mode		TDD		RBR1-394
- CHOICE mode		TDD		RBR1-395
- CHOICE TDD option		1.28 Mcps TDD		RBR1-396
- TSTD indicator		FALSE		RBR1-397
- Default DPCH Offset Value				RBR1-398
- CHOICE mode		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		TDD		RBR1-402
- Choice mode		TDD		RBR1-403
- Primary CCPCH info		1.28 Mcps TDD		RBR1-404
- Choice mode		FALSE		RBR1-405
- Choice TDD Option		Reference clause 6.1.4 Default settings		RBR1-406
- TSTD indicator		for cell 1		RBR1-407
- Cell parameters ID				RBR1-408
- SCTD indicator		FALSE		RBR1-409
- Downlink DPCH info for each RL		TDD		RBR1-410
- CHOICE mode		Identity of this CCTrCh.Default value is		RBR1-411
- DL CCTrCh List		1		RBR1-412
- TFCS ID				RBR1-413
- Time info		Now		RBR1-414
- Activation time		Infinite		RBR1-415
- Duration				RBR1-416
- Common timeslot info				RBR1-417
- 2 nd 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

Information Element	Condition	Value/remark	Version	Index
- Midamble configuration - Midamble Shift - CHOICE TDD option - Modulation - SS-TPC Symbols - Additional TPC-SS Sysbols		16 Not Present 1.28 Mcps TDD QPSK 1		RBR1-432 RBR1-433 RBR1-434 RBR1-435 RBR1-436 RBR1-437 RBR1-438
- First timeslot channelisation codes		Not present Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.		
- CHOICE codes representation - Channelisation codes bitmap		Reference to clause 6.10 Parameter Set		RBR1-439 RBR1-440
- CHOICE more timeslots - UL CCTrCH TPC List		No more timeslots This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.		RBR1-441 RBR1-442
- UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH		1 FALSE Not present Not Present		RBR1-443 RBR1-444 RBR1-445 RBR1-446 RBR1-447
- E-AGCH Info - CHOICE mode - E-HICH Information		Not Present TDD Not Present	Rel-6 Rel-7 Rel-7	RBR1-448 RBR1-449 RBR1-450
Downlink information per radio link list	A5	TDD		RBR1-451
- Downlink information for each radio link				RBR1-452
- Choice mode				RBR1-453
- Primary CCPCH info - Choice mode - Choice TDD Option - TSTD indicator		TDD 1.28 Mcps TDD FALSE		RBR1-454 RBR1-455 RBR1-456 RBR1-457
- Cell parameters ID		Reference clause 6.1.4 Default settings for cell 1		RBR1-458
- SCTD indicator		FALSE		RBR1-459
- Downlink DPCH info for each RL		Not Present		RBR1-460
- SCCPCH Information for FACH		Not Present		RBR1-461
- E-AGCH Info - CHOICE mode - E-HICH Information		Not Present TDD Not Present	Rel-6 Rel-7 Rel-7	RBR1-462 RBR1-463 RBR1-464
Downlink information per radio link list	A6			RBR1-465
- Downlink information for each radio link				RBR1-466
MBMS PL Service Restriction Information		Not Present Not Present	Rel-6	RBR1-467

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			RBR7-001
UE Information elements				RBR7-002
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3		RBR7-003
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		RBR7-004 RBR7-005

Information Element	Condition	Value/remark	Version	Index
- RRC message sequence number		MAC-I. SS provides the value of this IE, from its internal counter.		RBR7-006
Integrity protection mode info		Not Present		RBR7-007
Ciphering mode info		Not Present		RBR7-008
Activation time	A1,A2,A3	(256+CFN-(CFN MOD 8 + 8))MOD 256		RBR7-009
Activation time	A4, A5,A6	Not Present MD Integer(0..255) default is 'now'		RBR7-010
New U-RNTI		Not Present		RBR7-011
New C-RNTI	A1, A2, A3, A4,	Not Present		RBR7-012
New C-RNTI	A5, A6	'1010 1010 1010 1010'		RBR7-013
New DSCH-RNTI	A1, A2, A3, A4, A5, A6	Not Present		RBR7-014
New H-RNTI	A1, A2, A3, 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, A4	CELL_DCH 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, A4,A5,A6	Not Present A coefficient in the formula to count the paging occasions to be used by a specific UE		RBR7-020
CN information elements		Not Present		RBR7-021
CN information info		Not Present		RBR7-022
UTRAN mobility information elements		Not Present		RBR7-023
URA identity		[FFS]	Rel-5	RBR7-024
CHOICE specification mode				RBR7-025
RB information elements				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". (UM DCCH for RRC) 1 Not Present Not Present Not Present Not Present Not Present (AM DCCH for RRC) 2 Not Present Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT Low priority) 4 Not Present Not Present Not Present Not Present Not Present (TM DTCH) 10 Not Present		RBR7-028

Information Element	Condition	Value/remark	Version	Index
- RB stop/continue		Not Present		RBR7-121
- RB information to reconfigure		(AM DCCH for RRC)		RBR7-122
- RB identity	2	Not Present		RBR7-123
- PDCP info		Not Present		RBR7-124
- 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	Not Present		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	Not Present		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	Not Present		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, A3,A4,A5, A6	Not Present		RBR7-150
TrCH Information Elements				RBR7-151
Uplink transport channels				RBR7-152
UL Transport channel information for all transport channels	A1, A2, A5,A6	Not Present		RBR7-153
UL Transport channel information for all transport channels	A3, A4	Not Present TDD		RBR7-154
- PRACH TFCS				RBR7-155
- CHOICE mode				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 TFCI signalling		Normal (another option "split" only for FDD)		RBR7-162
- TFCI Field 1 Information				RBR7-163
- CHOICE TFCS representation		Complete reconfiguration		RBR7-164
information	- TFCS complete reconfiguration - CHOICE CTFC Size - CTFC information - CTFC - Power offset information - CHOICE Gain Factors - Reference TFC ID	Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.11 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set Computed Gain Factors (The last TFC is set to Signalled Gain Factors) 0 Integer(0.. 3)		RBR7-165 RBR7-166 RBR7-167 RBR7-168 RBR7-169 RBR7-170 RBR7-171

Information Element	Condition	Value/remark	Version	Index
- Coding Rate		Reference to TS34.108 clause 6.11		RBR7-218
- Rate matching attribute		Parameter Set		RBR7-219
- CRC size		Reference to TS34.108 clause 6.11		RBR7-220
Added or Reconfigured UL TrCH information		Parameter Set		
- Uplink transport channel type	A3	(DCH for DTCH) DCH 1		RBR7-221
- UL Transport channel identity		Dedicated transport channels		RBR7-222
- TFS		Reference to TS34.108 clause 6.11		RBR7-223
- CHOICE Transport channel type		Parameter Set		RBR7-224
- Dynamic Transport format information		(This IE is repeated for TFI number.)		RBR7-225
- RLC Size		Not Present		RBR7-226
- Number of TBs and TTI List		Reference to TS34.108 clause 6.11		RBR7-227
- Transmission Time Interval		Parameter Set		RBR7-228
- Number of Transport blocks		(This IE is repeated for TFI number.)		RBR7-229
- CHOICE Logical Channel list		Not Present		RBR7-230
- Semi-static Transport Format information		Reference to TS34.108 clause 6.11		RBR7-231
- Transmission time interval		Parameter Set		RBR7-232
- Type of channel coding		Reference to TS34.108 clause 6.11		RBR7-233
- Coding Rate		Parameter Set		RBR7-234
- Rate matching attribute		Reference to TS34.108 clause 6.11		RBR7-235
- CRC size		Parameter Set		RBR7-236
CHOICE mode	A1,A2,A3, A4,A5,A6	Reference to TS34.108 clause 6.11		RBR7-237
- (no data)		Parameter Set		RBR7-238
Downlink transport channels		All		RBR7-239
DL Transport channel information common for all transport channel	A1, A2, A5, A6	TDD		RBR7-240
DL Transport channel information common for all transport channel	A1,A2,A5,A6	Not Present		RBR7-241
- SCCPCH TFCS	A3,A4			RBR7-242
- CHOICE mode		Not Present		RBR7-243
- Individual DL CCTrCH information		TDD		RBR7-244
- DL TFCS Identity				RBR7-245
- TFCS ID				RBR7-246
- Shared Channel Indicator				RBR7-247
- CHOICE DL parameters				RBR7-248
- DL TFCS				RBR7-249
- CHOICE TFCI signalling				RBR7-250
- TFCI Field 1 Information				RBR7-251
- CHOICE TFCS representation		Independent		RBR7-252
- TFCI Field 1 Information		Normal (Normal' : meaning no split in the TFCI field either 'Logical' or 'Hard')		RBR7-253
- CHOICE TFCS representation		Complete reconfiguration		RBR7-254
- TFCI Field 1 Information				RBR7-255
- CHOICE CTFC Size				RBR7-256
- CTFC information		Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 clause 6.11		RBR7-257
- CTFC		Parameter Set.		RBR7-258
- Power offset		This IE is repeated for TFC numbers and reference to TS34.108 clause 6.11		RBR7-259
information		Reference to TS34.108 clause 6.11		RBR7-260
Deleted TrCH information list		Parameter Set		RBR7-261
Deleted DL TrCH information	A1, A2, A3, A4, A5,A6	Not Present		RBR7-262
Added or Reconfigured TrCH information list		Not Present		RBR7-263

Information Element	Condition	Value/remark	Version	Index
Added or Reconfigured DL TrCH information	A1, A2, A5, A6	Not Present		RBR7-262
Added or Reconfigured DL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 10 Same as UL DCH 5 Not Present DCH 6 Explicit Dedicated transport channel Reference to TS34.108 clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set -20 (-2.0)		RBR7-263 RBR7-264 RBR7-265 RBR7-266 RBR7-267 RBR7-268 RBR7-269 RBR7-270 RBR7-271 RBR7-272 RBR7-273 RBR7-274 RBR7-275 RBR7-276 RBR7-277 RBR7-278 RBR7-279 RBR7-280 RBR7-281 RBR7-282 RBR7-283 RBR7-284 RBR7-285 RBR7-286 RBR7-287 RBR7-288 RBR7-289
Added or Reconfigured DL TrCH information	A3	DCH 6 Explicit Dedicated transport channel Reference to TS34.108 clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.11 Parameter Set Reference to TS34.108 clause 6.11 Parameter Set -20 (-2.0)		RBR7-290 RBR7-291 RBR7-292 RBR7-293 RBR7-294 RBR7-295 RBR7-296 RBR7-297 RBR7-298 RBR7-299 RBR7-300 RBR7-301 RBR7-302 RBR7-303 RBR7-304 RBR7-305 RBR7-306 RBR7-307 RBR7-308 RBR7-309
Preconfiguration	A1,A2,A3, A4,A5,A6	[FFS]	Rel-5	RBR7-310
PhyCH information elements				RBR7-311

Information Element	Condition	Value/remark	Version	Index
Frequency info - CHOICE mode - UARFCN (Nt)	A1,A2,A3, A4,A5	TDD Reference to clause 5.1 Test frequencies		RBR7-312 RBR7-313 RBR7-314
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
Uplink radio resources				RBR7-320
Maximum allowed UL TX power	A1,A2,A3, A4,A5,A6	33dBm		RBR7-321
CHOICE channel requirement -Uplink DPCH power control info - CHOICE mode - UL target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference info - Individual timeslot interference - CHOICE TDD option - Timeslot number - TDD UL interference - Primary CCPCH Tx Power - CHOICE mode - Uplink Timing Advance Control - CHOICE Timing Advance - CHOICE TDD option	A1, A2, A3, A4	Uplink DPCH info TDD 6 Individually Signalled 7.68 Mcps TDD Reference to TS34.108 clause 6.11 Parameter Set 7.68 Mcps TDD As required by, Reference to TS34.108 clause 6.11 Parameter Set As required by, Reference to TS34.108 clause 6.11 Parameter Set (if not specified -60 dBm) 18 Integer(6..43) (-70 dBm Received if pathloss not specified) TDD Enabled 7.68 Mcps TDD (Default)	Rel-7 Rel-7	RBR7-322 RBR7-323 RBR7-324 RBR7-325 RBR7-326 RBR7-327 RBR7-328 RBR7-329 RBR7-330 RBR7-331 RBR7-332 RBR7-333 RBR7-334 RBR7-335 RBR7-336 RBR7-337
- UL CCTrCH List - TFCS ID		1		RBR7-338 RBR7-339
- UL Target SIR		Real (-11 .. 20 by step of 0.5dB) Reference to TS34.108 Parameter set.		RBR7-340
- Time info - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Uplink DPCH timeslots and code - Dynamic SF usage - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type		(256+CFN-(CFN MOD 8 + 8))MOD 256 infinite Default value is "Frame" Reference to TS34.108 clause 6 Parameter set Reference to TS34.108 clause 6 Parameter set 1 empty FALSE	Rel-7	RBR7-341 RBR7-342 RBR7-343 RBR7-344 RBR7-345 RBR7-346 RBR7-347 RBR7-348 RBR7-349 RBR7-350 RBR7-351 RBR7-352 RBR7-353 RBR7-354 RBR7-355 RBR7-356 RBR7-357
- CHOICE TDD option - CHOICE Burst Type - Midamble allocation mode - Midamble configuration - Midamble Shift		7.68 Mcps TDD Type 1 Default midamble 8 Not Present	Rel-7	RBR7-358 RBR7-359 RBR7-360 RBR7-361 RBR7-362

Information Element	Condition	Value/remark	Version	Index
- CHOICE TDD option - First timeslot Code List - channelisation codes - CHOICE more timeslots - UL CCTrCH List to Remove CHOICE channel requirement	A5, A6	7.68 Mcps TDD (No Data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. No more timeslots (No Data) Not present Not Present	Rel-4	RBR7-363 RBR7-364 RBR7-365 RBR7-366 RBR7-367 RBR7-368
E-DCH info		Not Present	Rel-6	RBR7-369
Downlink radio resources				RBR7-370
CHOICE Mode - Downlink PDSCH information	A1,A2,A3, A4,A5,A6	TDD No date		RBR7-371 RBR7-372
Downlink HS-PDSCH Information	A1, A2, A3, 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 - Downlink DPCH info common for all RL - Timing indicaton - CFN-targetSFN frame offset	A1, A2, A3	Maintain Not Present		RBR7-375 RBR7-376 RBR7-377 RBR7-378
- Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value		TDD 1 Not Present TDD TDD 7.68 Mcps TDD (No Data) Not Present	Rel-7	RBR7-379 RBR7-380 RBR7-381 RBR7-382 RBR7-383 RBR7-384 RBR7-385 RBR7-386
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option		Initialise Not Present TDD 1 Not Present TDD TDD 7.68 Mcps TDD (no Data)	Rel-7	RBR7-387 RBR7-388 RBR7-389 RBR7-390 RBR7-391 RBR7-392 RBR7-393 RBR7-394 RBR7-395 RBR7-396 RBR7-397
- Default DPCH Offset Value - CHOICE mode - Default DPCH Offset Value		TDD 0		RBR7-398 RBR7-399 RBR7-400
Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - CHOICE SyncCase - Timeslot - SCTD indicator - Downlink DPCH Info for each RL - CHOICE mode - DL CCTrCh List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding	A1, A2, A3, A4	TDD TDD 7.68 Mcps TDD Sync Case 1 Reference clause 6.1.4 Default settings for cell 1 FALSE 7.68 Mcps TDD Identity of this CCTrCh.Default value is 1 Now Infinite Default value is "Frame" Reference to TS34.108 clause 6	Rel-7	RBR7-401 RBR7-402 RBR7-403 RBR7-404 RBR7-405 RBR7-406 RBR7-407 RBR7-408 RBR7-409 RBR7-410 RBR7-411 RBR7-412 RBR7-413 RBR7-414 RBR7-415 RBR7-416 RBR7-417 RBR7-418 RBR7-419

Information Element	Condition	Value/remark	Version	Index
VHCR	- Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option	Parameter set Reference to TS34.108 clause 6 Parameter set 1 empty	Rel-7	RBR7-420 RBR7-421 RBR7-422 RBR7-423 RBR7-424 RBR7-425 RBR7-426
VHCR	- Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes	4 OR 5 OR 6 TRUE 7.68 Mcps TDD Type 1 Default midamble 8 Not Present 7.68 Mcps TDD (No Data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6.11 Parameter Set. Bitmap Reference to TS34.108 clause 6.11 Parameter Set No more timeslots (No Data) Default (is previous list or all defined UL CCTrCHs.)	Rel-7	RBR7-427 RBR7-428 RBR7-429 RBR7-430 RBR7-431 RBR7-432 RBR7-433 RBR7-434 RBR7-435 RBR7-436
VHCR	- CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared Channel Indicator - DL CCTrCH List to Remove - SCCPCH Information for FACH	1 FALSE Not present Not Present	R99 and Rel-4 only	RBR7-437 RBR7-438 RBR7-439 RBR7-440 RBR7-441 RBR7-442 RBR7-443 RBR7-444 RBR7-445
Downlink information per radio link list	A5	TDD TDD 7.68 Mcps TDD FALSE Reference clause 6.1.4 Default settings for cell 1 FALSE	Rel-7	RBR7-446 RBR7-447 RBR7-448 RBR7-449 RBR7-450 RBR7-451 RBR7-452 RBR7-453 RBR7-454
- Downlink information for each radio link		Not Present		RBR7-455
- SCCPCH Information for FACH		Not Present	R99 and Rel-4 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
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Message Type RRC transaction identifier	Checked to see if the value is identical to 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.	
Uplink integrity protection activation info CHOICE mode - CHOICE TDD option - UL Timing Advance	Not checked TDD 3.84 Mcps TDD 0	Rel-4
COUNT-C activation time	Not checked	
Radio bearer uplink ciphering activation time info	Not checked	
Uplink counter synchronisation info	Not checked	

Contents of RADIO BEARER 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 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.	
Uplink integrity protection activation info CHOICE mode - CHOICE TDD option	Not checked TDD 1.28 Mcps TDD (No data)	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 RADIO BEARER RECONFIGURATION COMPLETE message: AM (7.68 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 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.	
Uplink integrity protection activation info CHOICE mode - CHOICE TDD option - Extended UL Timing Advance	Not checked TDD 7.68 Mcps TDD 0	Rel-7 Rel-7
COUNT-C activation time	Not checked	
Radio bearer uplink ciphering activation time info	Not checked	

Uplink counter synchronisation info	Not checked	
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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 Radio bearers for which reconfiguration would have succeeded List	Checked to see if it meets test requirement 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	RBL3-001
	, A9, A10			
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3	Rel-5	RBL3-002
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.		RBL3-004
- RRC message sequence number		SS provides the value of this IE, from its internal counter.		RBL3-005
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	RBL3-011
	, A9, A10			
New U-RNTI		Not Present		RBL3-012
New C-RNTI	A1,A2,A3,A4	Not Present	RBL3-013	RBL3-013
	, A9			
New C-RNTI	A5, A6, A7, A8	'1010 1010 1010 1010'	RBL3-015	RBL3-015
	, A10			
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	RBL3-019
	, A9, A10,			
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	RBL3-022
	, A9			
RRC State indicator	A5, A6, A7, A8	CELL_FACH	RBL3-024	RBL3-025
	, A10			
UTRAN DRX cycle length coefficient	A1,A2,A3,A4	Not Present		RBL3-026

Information Element	Condition	Value/remark	Version	Index	
	,A5,A6, A7, A8		Rel-5	RBL3-027	
	, A9, A10				
CN information info		Not Present		RBL3-028	
Signalling Connection release indication		Not Present		RBL3-029	
URA identity		Not Present		RBL3-030	
RAB information to reconfigure list		Not Present		RBL3-031	
RB information to release list	A1, A7	10		RBL3-032	
RB information to release - RB identity				RBL3-033	
RB information to release list	A2, A8	10 11 12		RBL3-035	
RB information to release - RB identity				RBL3-036	
RB information to release - RB identity				RBL3-037	
RB information to release - RB identity				RBL3-038	
RB information to release list	A3, A4, A5, A6	20		RBL3-042	
RB information to release - RB identity				RBL3-043	
RB information to release	A9, A10	25	Rel-5	RBL3-045	
- RB identity				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 , A9, A10	Not Present		RBL3-048	
Downlink counter synchronisation info	A1,A2,A3,A4 ,A5,A6, A7, A8 , A9, A10		Rel-5	RBL3-049	
	Not Present		RBL3-050		
UL 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.		RBL3-052	
			Rel-5	RBL3-053	
Deleted TrCH information list	A1,A2, A3, A5, A7, A8 , A9, A10	DCH 1		RBL3-054	
Deleted UL TrCH Information	A1,A2, A3, A5, A7, A8 , A9, A10		Rel-5	RBL3-055	
				RBL3-056	
			Rel-5	RBL3-057	
- Uplink transport channel type - Transport channel identity		DCH 1		RBL3-058	
Deleted UL TrCH Information	- Uplink transport channel type - Transport channel identity	DCH 2		RBL3-059	
Deleted UL TrCH Information	- Uplink transport channel type - Transport channel identity	DCH 3		RBL3-060	
Deleted TrCH information list	A4, A6	Not Present		RBL3-066	
Added or Reconfigured TrCH information list	A5, A6, A7, A8 , A10	Not Present		RBL3-067	
Added or Reconfigured TrCH information list	A1, A2, A3, A4 , A9		Rel-5	RBL3-068	
	TrCHs (DCH for DCCH)		RBL3-069		
		Rel-5	RBL3-070		
Added or Reconfigured UL TrCH information	- Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information	DCH 5 Dedicated transport channels		RBL3-071 RBL3-072 RBL3-073 RBL3-074 RBL3-075 RBL3-076	

Information Element	Condition	Value/remark	Version	Index
- RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not present Reference to TS34.108 clause 6.10 Parameter Set All (NULL) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set		RBL3-077 RBL3-078 RBL3-079 RBL3-080 RBL3-081 RBL3-082 RBL3-083 RBL3-084 RBL3-085 RBL3-086 RBL3-087
CHOICE mode		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 , A9, A10	TFCS reconfigured to fit the new transport channel configuration.		RBL3-089
			Rel-5	RBL3-090
Deleted TrCH information list				RBL3-091
- Deleted DL TrCH Information	A1, A2, A3, A4, A5, A6, A7, A8 , A9			RBL3-092
- Downlink transport channel type - Transport channel identity	A1, A2, A3, A4, A5, A6, A7, A8	DCH 6	Rel-5	RBL3-093
- Deleted DL TrCH Information	A2, A8	DCH 7		RBL3-094
- Downlink transport channel type - Transport channel identity	A2, A8	DCH 8		RBL3-095
- Deleted DL TrCH Information	A9, A10		Rel-5	RBL3-096
- Downlink transport channel type		HS-DSCH		RBL3-097
- DL HS-DSCH MAC-d flow identity		0		RBL3-098
Added or Reconfigured TrCH information list				RBL3-099
- Added or Reconfigured DL TrCH information	A5, A6, A7, A8 , A10	Not Present		RBL3-100
			Rel-5	RBL3-101
- Added or Reconfigured DL TrCH information	A1, A2, A3, A4	1 TrCHs (DCH for DCCH)		RBL3-102
		DCH		RBL3-103
- Downlink transport channel type		10		RBL3-104
- DL Transport channel identity		Same as UL		RBL3-105
- CHOICE DL parameters		DCH		RBL3-106
- Uplink transport channel type		5		RBL3-107
- UL TrCH identity				RBL3-108
- DCH quality target				RBL3-109
- BLER Quality value		Not Present		RBL3-110
Frequency info	A1, A2, A3, A4, A5, A7, A8 , A9, A10			RBL3-111
		TDD Reference to clause 5.1 Test frequencies	Rel-5	RBL3-112 RBL3-113 RBL3-114
Frequency info	A6	Not Present		RBL3-115
Maximum allowed UL TX power		33dBm		RBL3-116
CHOICE channel requirement	A5, A6 , A7, A8	Not Present	R99 and Rel-4 only	RBL3-117
CHOICE channel requirement	A1, A2, A3, A4	Uplink DPCH info	R99 and Rel-4 only	RBL3-118

Information Element	Condition	Value/remark	Version	Index
Uplink DPCH info	A10	Not Present	Rel-5	RBL3-124
Uplink DPCH info	A9	Not Present TDD Not Present 1 +20dB (256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite Default value is "Frame" Reference to TS34.108 clause 6 Parameter set Reference to TS34.108 clause 6 Parameter set 1	Rel-5	RBL3-125 RBL3-126 RBL3-127 RBL3-128 RBL3-129 RBL3-130 RBL3-131 RBL3-132 RBL3-133 RBL3-134 RBL3-135 RBL3-136 RBL3-137 RBL3-138 RBL3-139 RBL3-140 RBL3-141 RBL3-142 RBL3-143 RBL3-144 RBL3-145 RBL3-146 RBL3-147 RBL3-148 RBL3-149 RBL3-150 RBL3-151 RBL3-152 RBL3-153 RBL3-154 RBL3-155 RBL3-156 RBL3-157 RBL3-158
- Uplink DPCH power control info				
- CHOICE mode				
- Uplink Timing Advance Control				
- UL CCTrCH List				
- TFCS ID				
- UL Target SIR				
- Time info				
- Activation time				
- Duration				
- Common timeslot info				
- 2 nd interleaving mode				
- TFCI coding				
- Puncturing limit				
- Repetition period				
- Repetition length				
- Uplink DPCH timeslots and code				
- Dynamic SF usage				
- First individual timeslot info				
- Timeslot number				
- CHOICE TDD option				
- Timeslot number				
- TFCI existence				
- Midamble shift and burst type				
- CHOICE TDD option				
- CHOICE Burst Type				
- Midamble allocation mode				
- Midamble configuration				
- Midamble Shift				
- CHOICE TDD option				
- First timeslot Code List				
- channelisation codes				
- CHOICE more timeslots				
- UL CCTrCH List to Remove				
E-DCH Info	Not Present		Rel-6	RBL3-159
CHOICE Mode	A1, A2, A3, A4, A5, A6, A7, A8	TDD	R99 and Rel-4 only	RBL3-160
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	Downlink DPCH info common for all RL Maintain Not Present TDD 1	Rel-5 Rel-6	RBL3-164 RBL3-165 RBL3-166 RBL3-167 RBL3-168 RBL3-169 RBL3-170 RBL3-171 RBL3-172
- CHOICE DPCH info				
- Downlink DPCH info common for all RL				
- Timing indication				
- CFN-targetSFN frame offset				
- Downlink DPCH power control information				
- CHOICE mode				
- TPC Step Size				

Information Element	Condition	Value/remark	Version	Index
- MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value - MAC-hs reset indicator		Not Present TDD TDD 3.84 Mcps TDD Not Present Not Present	Rel-5	RBL3-173 RBL3-174 RBL3-175 RBL3-176 RBL3-177 RBL3-178
Downlink information common for all radio links - CHOICE DPCH info - Downlink DPCH info common for all RL - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value - CHOICE mode - Default DPCH Offset Value - MAC-hs reset indicator	A4	Downlink DPCH info common for all RL Initialise Not Present TDD 1 Not Present TDD TDD 3.84 Mcps TDD TDD 0 Integer(0..7) Not Present	Rel-6 Rel-5	RBL3-179 RBL3-180 RBL3-181 RBL3-182 RBL3-183 RBL3-184 RBL3-185 RBL3-186 RBL3-187 RBL3-188 RBL3-189 RBL3-190 RBL3-191 RBL3-192 RBL3-193 RBL3-194
Downlink information per radio link list	A1, A2, A3, A4 , A9			RBL3-195
- Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - Cell parameters ID - SCTD indicator - CHOICE DPCH info - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCh List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First individual timeslot info - Timeslot number - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes		TDD TDD 3.84 Mcps TDD Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE Downlink DPCH info for each RL TDD 2 Integer(1..8) Now Infinite Default value is "Frame" Reference to TS34.108 clause 6 Parameter set Reference to TS34.108 clause 6 Parameter set 1 NULL 3.84 Mcps TDD 4 OR 5 OR 6 TRUE 3.84 Mcps TDD Default midamble 16 Not Present 3.84 Mcps TDD (no data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108	Rel-5 Rel-6	RBL3-196 RBL3-197 RBL3-198 RBL3-199 RBL3-200 RBL3-201 RBL3-202 RBL3-203 RBL3-204 RBL3-205 RBL3-206 RBL3-207 RBL3-208 RBL3-209 RBL3-210 RBL3-211 RBL3-212 RBL3-213 RBL3-214 RBL3-215 RBL3-216 RBL3-217 RBL3-218 RBL3-219 RBL3-220 RBL3-221 RBL3-222 RBL3-223 RBL3-224 RBL3-225 RBL3-226 RBL3-227 RBL3-228 RBL3-229 RBL3-230

Information Element	Condition	Value/remark	Version	Index
- CHOICE codes representation - Channelisation codes bitmap		clause 6 Parameter Set. Bitmap Reference to TS34.108 clause 6.10		RBL3-231 RBL3-232
- CHOICE more timeslots - UL CCTrCH TPC List - DL CCTrCH List to Remove		Parameter Set No more timeslots Default is all		RBL3-233 RBL3-234
- SCCPCH Information for FACH		Not present Not Present	R99 and Rel-4 only	RBL3-235
- E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information		Not present Not present Not present	Rel-6 Rel-6 Rel-6	RBL3-237 RBL3-238 RBL3-239
Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - TSTD indicator - Cell parameters ID - SCTD indicator - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information - Downlink DPCH info for each RL - SCCPCH Information for FACH	A5 ,A7, A8	TDD TDD 3.84 Mcps TDD FALSE Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE Not present Not present Not present Not Present Not Present		RBL3-240 RBL3-241 RBL3-242 RBL3-243 RBL3-244 RBL3-245 RBL3-246 RBL3-247 RBL3-248 RBL3-249 RBL3-250 RBL3-251 RBL3-252 RBL3-253
Downlink information per radio link list	A6 , A10	Not Present	Rel-5	RBL3-254 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"	
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 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 , A9, A10	Arbitrarily selects an integer between 0 and 3		RBL1-001
RRC transaction identifier			Rel-5	RBL1-002
Integrity check info				RBL1-004
- message authentication code		SS calculates the value of MAC-I for this		RBL1-005

Information Element	Condition	Value/remark	Version	Index
		message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-1.		
- RRC message sequence number		SS provides the value of this IE, from its internal counter.		RBL1-006
Integrity protection mode info		Not Present		RBL1-007
Ciphering mode info		Not Present		RBL1-008
Activation time	A1, A2, A3, A7, A8 , A9, A10	(256+CFN-(CFN MOD 8 + 8))MOD 256		RBL1-009
			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,A 4 , A9	Not Present		RBL1-013
			Rel-5	RBL1-014
New C-RNTI	A5, A6, A7, A8 , A10	'1010 1010 1010 1010'		RBL1-015
			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 , A9, A10	Not Present		RBL1-018
			Rel-5	RBL1-019
CHOICE mode		TDD	Rel-7	RBL1-020
- New E-RNTI		Not Present	Rel-7	RBL1-021
RRC State indicator	A1,A2, A3, A4 , A9	CELL_DCH		RBL1-022
			Rel-5	RBL1-023
RRC State indicator	A5, A6, A7, A8 , A10	CELL_FACH		RBL1-024
			Rel-5	RBL1-025
UTRAN DRX cycle length coefficient	A1,A2,A3,A 4, A5,A6, A7, A8 , A9, A10	Not Present		RBL1-026
			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
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 , A9, A10	Not Present		RBL1-048
			Rel-5	RBL1-049

Information Element	Condition	Value/remark	Version	Index
Downlink counter synchronization info	A1,A2,A3,A4,A5,A6, A7, A8	Not Present		RBL1-050
	, A9, A10			Rel-5 RBL1-051
UL Transport channel information common for all transport channels	A1, A2, A3, A4	TFCS reconfigured to fit the new transport channel configuration.		RBL1-052
	, A9			Rel-5 RBL1-053
UL Transport channel information common for all transport channels	A5, A6, A7, A8	Not Present		RBL1-054
	, A10			Rel-5 RBL1-055
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 mode		TDD (No data)		RBL1-090
DL Transport channel information common for all transport channels	A1, A2, A3, A4,	TFCS reconfigured to fit the new transport channel configuration.		RBL1-091
	, A9			Rel-5 RBL1-092
DL Transport channel information common for all transport channels	A5, A6, A7, A8	Not Present		RBL1-093
	, A10			Rel-5 RBL1-094
Deleted TrCH information list				RBL1-095
- 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

Information Element	Condition	Value/remark	Version	Index
- 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
- Added or Reconfigured DL TrCH information	A5, A6, A7, A8 , A10	Not Present		RBL1-111
			Rel-5	RBL1-112
- Added or Reconfigured DL TrCH information	A1, A2, A3, A4 , A9	1 TrCHs (DCH for DCCH)		RBL1-113
			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 , A9, A10			RBL1-122
			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
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
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 , A10	Not Present		RBL1-132
			Rel-5	RBL1-133
CHOICE channel requirement	A1, A2, A3, A4 , A9	Uplink DPCH info		RBL1-134
			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) 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 nd 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

Information Element	Condition	Value/remark	Version	Index
- 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
- Midamble configuration		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
CHOICE Mode	A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10	TDD		RBL1-172
			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 , A10	Not Present		RBL1-175
			Rel-5	RBL1-176
Downlink information common for all radio links	A1, A2, A3 , A9			RBL1-177
			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

Information Element	Condition	Value/remark	Version	Index
	, A9		Rel-5	RBL1-209
- Downlink information for each radio link				RBL1-210
- Choice mode		TDD		RBL1-211
- 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 nd 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		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 Sysbols		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
- Downlink information for each radio link				RBL1-257
- Choice mode		TDD		RBL1-258
- Primary CCPCH info				RBL1-259
- Choice mode		TDD		RBL1-260
- Choice TDD Option		1.28 Mcps TDD		RBL1-261
- TSTD indicator		FALSE		RBL1-262
- Cell parameters ID		Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)		RBL1-263
				RBL1-264

Information Element	Condition	Value/remark	Version	Index
- SCTD indicator		FALSE		RBL1-265
- Downlink DPCH info for each RL		Not Present		RBL1-266
- SCCPCH Information for FACH		Not Present	R99 and Rel-4 only	RBL1-267
- E-AGCH Info		Not Present	Rel-6	RBL1-268
- CHOICE mode		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

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 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 - 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 RBL7-005
	- RRC message sequence number			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+CFN-(CFN MOD 8 + 8))MOD 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

Information Element	Condition	Value/remark	Version	Index				
RRC State indicator	A1,A2, A3, A4 , A9	CELL_DCH	Rel-5	RBL7-022 RBL7-023				
	A5, A6, A7, A8 , A10							
UTRAN DRX cycle length coefficient	A1,A2,A3,A4 ,A5,A6, A7, A8 , A9, A10	Not Present	Rel-5	RBL7-026 RBL7-027				
	CN information info							
Signalling Connection release indication		Not Present		RBL7-028				
URA identity		Not Present		RBL7-029				
RAB information to reconfigure list		Not Present		RBL7-030				
RB information to release list	A1, A7 RB information to release - RB identity	10		RBL7-032 RBL7-033 RBL7-034				
RB information to release list								
RB information to release								
RB information to release - RB identity	A2, A8	10		RBL7-035 RBL7-036 RBL7-037				
RB information to release list	A3, A4, A5, A6	11		RBL7-038 RBL7-039				
RB information to release								
RB information to release - RB identity	A9, A10	12		RBL7-040 RBL7-041				
RB information to release list	A3, A4, A5, A6	20		RBL7-042 RBL7-043				
RB information to release								
RB information to release - RB identity	A9, A10	25	Rel-5	RBL7-044 RBL7-045				
RB information to reconfigure list	A1,A2, A3,A4,A5, A6, A7, A8, A9, A10	Not Present	Rel-6	RBL7-046				
RB information to be affected list								
RB information to be affected list	A1,A2, A3,A4,A5, A6, A7, A8 , A9, A10	Not Present	Rel-5	RBL7-048 RBL7-049				
Downlink counter synchronisation info	A1,A2,A3,A4 ,A5,A6, A7, A8 , A9, A10	Not Present	Rel-5	RBL7-050 RBL7-051				
UL Transport channel information common for all transport channels								
UL 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.	Rel-5	RBL7-052 RBL7-053				
Deleted TrCH information list	A1,A2, A3, A5, A7, A8 , A9, A10	DCH 1	Rel-5	RBL7-054 RBL7-055 RBL7-056 RBL7-057				
Deleted UL TrCH Information								
Deleted UL TrCH Information	A1,A2, A3, A5, A7, A8 , A9, A10	DCH 2	Rel-5	RBL7-058 RBL7-059 RBL7-060 RBL7-061 RBL7-062 RBL7-063 RBL7-064 RBL7-065				
Deleted UL TrCH Information								
Deleted UL TrCH Information								
Deleted TrCH information list	A4, A6	Not Present		RBL7-066				
Added or Reconfigured TrCH information list	A5, A6, A7, A8 , A10	Not Present	Rel-5	RBL7-067 RBL7-068				
Added or Reconfigured TrCH information list	A1, A2, A3, A4	TrCHs (DCH for DCCH)		RBL7-069				

Information Element	Condition	Value/remark	Version	Index
	, A9		Rel-5	RBL7-070
Added or Reconfigured UL TrCH information				RBL7-071
- Uplink transport channel type		DCH		RBL7-072
- UL Transport channel identity		5		RBL7-073
- TFS		Dedicated transport channels		RBL7-074
- CHOICE Transport channel type		Reference to TS34.108 clause 6.11		RBL7-075
- Dynamic Transport format information		Parameter Set		RBL7-076
- RLC Size		(This IE is repeated for TFI number.)		RBL7-077
- Number of TBs and TTI List		Not present		RBL7-078
- Transmission Time Interval		Reference to TS34.108 clause 6.11		RBL7-079
- Number of Transport blocks		Parameter Set		RBL7-080
- CHOICE Logical Channel list		All (NULL)		RBL7-081
- Semi-static Transport Format information		Reference to TS34.108 clause 6.11		RBL7-082
- Transmission time interval		Parameter Set		RBL7-083
- Type of channel coding		Reference to TS34.108 clause 6.11		RBL7-084
- Coding Rate		Parameter Set		RBL7-085
- Rate matching attribute		Reference to TS34.108 clause 6.11		RBL7-086
- CRC size		Parameter Set		RBL7-087
CHOICE mode		Reference to TS34.108 clause 6.11		RBL7-088
DL Transport channel information common for all transport channels	A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10	TDD (No data) TFCS reconfigured to fit the new transport channel configuration.	R99 and Rel-4 only Rel-5	RBL7-089 RBL7-090
Deleted TrCH information list				RBL7-091
- Deleted DL TrCH Information	A1, A2, A3, A4, A5, A6, A7, A8 , A9			RBL7-092
	A2, A8	DCH	Rel-5	RBL7-093
	A2, A8	6		RBL7-094
		DCH		RBL7-095
		7		RBL7-096
		DCH		RBL7-097
		8		RBL7-098
				RBL7-099
				RBL7-100
				RBL7-101
- Deleted DL TrCH Information	A9, A10		Rel-5	RBL7-102
		HS-DSCH		RBL7-103
		0		RBL7-104
Added or Reconfigured TrCH information list				RBL7-105
- Added or Reconfigured DL TrCH information	A5, A6, A7, A8 , A10	Not Present		RBL7-106
			Rel-5	RBL7-107
- Added or Reconfigured DL TrCH information	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	A1, A2, A3, A4, A5, A7, A8			RBL7-116
	, A9, A10	TDD Reference to clause 5.1 Test	Rel-5	RBL7-117 RBL7-118 RBL7-119

Information Element	Condition	Value/remark	Version	Index
Frequency info	A6	frequencies 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 channel requirement	A5, A6 , A7, A8	Not Present	R99 and Rel-4 only	RBL7-126
CHOICE channel requirement	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	Not Present TDD Not Present 1 +20dB (256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite Default value is "Frame" Reference to TS34.108 clause 6.11 Parameter set Reference to TS34.108 clause 6.11 Parameter set 1 7.68Mcps TDD FALSE 7.68 Mcps TDD 1 OR 2 OR 3 TRUE 7.68 Mcps TDD Type 1 Default midamble 8 Not Present 7.68 Mcps TDD (no data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. No more timeslots Not present	Rel-5 Rel-7 Rel-7	RBL7-129 RBL7-130 RBL7-131 RBL7-132 RBL7-133 RBL7-134 RBL7-135 RBL7-136 RBL7-137 RBL7-138 RBL7-139 RBL7-140 RBL7-141 RBL7-142 RBL7-143 RBL7-144 RBL7-145 RBL7-146 RBL7-147 RBL7-148 RBL7-149 RBL7-150 RBL7-151 RBL7-152 RBL7-153 RBL7-154 RBL7-155 RBL7-156 RBL7-157 RBL7-158 RBL7-159 RBL7-160 RBL7-161 RBL7-162 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,	Not Present		RBL7-167

Information Element	Condition	Value/remark	Version	Index
	A8 , A10		Rel-5	RBL7-168
Downlink information common for all radio links	A1, A2, A3 , A9	Downlink DPCH info common for all RL Maintain Not Present TDD 1 Not Present TDD TDD 7.68 Mcps TDD Not Present Not Present	Rel-5 Rel-6 Rel-5 RBL7-170 RBL7-171 RBL7-172 RBL7-173 RBL7-174 RBL7-175 RBL7-176 RBL7-177 RBL7-178 RBL7-179 RBL7-180 RBL7-181 RBL7-182 RBL7-183	RBL7-169 RBL7-170 RBL7-171 RBL7-172 RBL7-173 RBL7-174 RBL7-175 RBL7-176 RBL7-177 RBL7-178 RBL7-179 RBL7-180 RBL7-181 RBL7-182 RBL7-183
- CHOICE DPCH info			Rel-5	
- Downlink DPCH info common for all RL				RBL7-184
- Timing indication				RBL7-185
- CFN-targetSFN frame offset				RBL7-186
- Downlink DPCH power control information				RBL7-187
- CHOICE mode				RBL7-188
- TPC Step Size				RBL7-189
- MAC-d HFN initial value				RBL7-190
- CHOICE mode				RBL7-191
- CHOICE mode				RBL7-192
- CHOICE TDD option				RBL7-193
- Default DPCH Offset Value				RBL7-194
- MAC-hs reset indicator				RBL7-195
Downlink information common for all radio links	A4	Downlink DPCH info common for all RL Initialise Not Present TDD 1 Not Present TDD TDD 7.68 Mcps TDD TDD 0 Integer(0..7) Not Present	Rel-6 Rel-5	RBL7-196 RBL7-197 RBL7-198 RBL7-199
- CHOICE DPCH info				
- Downlink DPCH info common for all RL				RBL7-186
- Timing indication				RBL7-187
- CFN-targetSFN frame offset				RBL7-188
- Downlink DPCH power control information				RBL7-189
- CHOICE mode				RBL7-190
- TPC Step Size				RBL7-191
- MAC-d HFN initial value				RBL7-192
- CHOICE mode				RBL7-193
- CHOICE mode				RBL7-194
- CHOICE TDD option				RBL7-195
- Default DPCH Offset Value				RBL7-196
- CHOICE mode				RBL7-197
- Default DPCH Offset Value				RBL7-198
- MAC-hs reset indicator				RBL7-199
Downlink information per radio link list	A1, A2, A3, A4			RBL7-200
	, A9		Rel-5	RBL7-201
- Downlink information for each radio link		TDD		RBL7-202
- Choice mode		TDD		RBL7-203
- Primary CCPCH info		7.68 Mcps TDD		RBL7-204
- Choice mode		Ref. to the Default setting in TS34.108 clause 6.1 (TDD)		RBL7-205
- Choice TDD Option		Integer(0..127)		RBL7-206
- Cell parameters ID		FALSE		RBL7-207
		Downlink DPCH info for each RL	Rel-6	RBL7-208
- SCTD indicator		7.68Mcps TDD	Rel-6	RBL7-209
- CHOICE DPCH info		2 Integer(1..8)	Rel-7	RBL7-210
- Downlink DPCH info for each RL		Now		RBL7-211
- CHOICE mode		Infinite		RBL7-212
- DL CCTrCh List		Default value is "Frame"		RBL7-213
- TFCS ID		Reference to TS34.108 clause 6.11		RBL7-214
- Time info		Parameter set		RBL7-215
- Activation time		Reference to TS34.108 clause 6.11		RBL7-216
- Duration		Parameter set		RBL7-217
- Common timeslot info		1		RBL7-218
- 2 nd interleaving mode		NULL	Rel-7	RBL7-219
- TFCI coding				RBL7-220
				RBL7-221
- Puncturing limit				RBL7-222
				RBL7-223
- Repetition period				RBL7-224
- Repetition length				RBL7-225
- Downlink DPCH timeslots and codes				
VHCR				
- First individual timeslot info				
- Timeslot number				

Information Element	Condition	Value/remark	Version	Index
- CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - Midamble Shift - CHOICE TDD option - First timeslot channelisation codes		7.68 Mcps TDD 4 OR 5 OR 6 TRUE	Rel-7	RBL7-226 RBL7-227 RBL7-228 RBL7-229
VHCR		7.68 Mcps TDD Default midamble 8 Not Present 7.68 Mcps TDD (no data) Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. Bitmap Reference to TS34.108 clause 6.11 Parameter Set	Rel-7	RBL7-230 RBL7-231 RBL7-232 RBL7-233 RBL7-234 RBL7-235
- CHOICE codes representation - Channelisation codes bitmap - CHOICE more timeslots - UL CCTrCH TPC List - DL CCTrCH List to Remove - SCCPCH Information for FACH - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information		No more timeslots Default is all Not present Not Present Not present Not present Not present	Rel-7 Rel-7	RBL7-236 RBL7-237 RBL7-238 RBL7-239 RBL7-240 RBL7-241 RBL7-242 RBL7-243 RBL7-244
Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - Choice TDD Option - TSTD indicator - Cell parameters ID - SCTD indicator - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information - Downlink DPCH info for each RL - SCCPCH Information for FACH	A5 ,A7, A8	TDD TDD 7.68 Mcps TDD FALSE Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) FALSE Not present Not present Not present Not Present Not Present	Rel-7	RBL7-245 RBL7-246 RBL7-247 RBL7-248 RBL7-249 RBL7-250 RBL7-251 RBL7-252 RBL7-253 RBL7-254 RBL7-255 RBL7-256 RBL7-257 RBL7-258
Downlink information per radio link list	A6	Not Present		RBL7-259
	, A10		Rel-5	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"	
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 DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	0
RRC transaction identifier	
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 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.	
CN domain identity	CS domain or PS domain	
Intra Domain NAS Node Selector	Set to the same octet string as in the IMSI stored in the USIM card	
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	See the specific test case	
Measured results on RACH	Not checked	Rel-5

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
- Channelisation 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	'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 (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	

Information Element	Value/remark	Version
- 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	
- CCTrCH identity	2	Rel-6
- TFCS		
- CHOICE TFCI signalling	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	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	

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 mode	1.28/3.84 Mcps TDD	Rel-6
- 2 nd 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 mode	1.28/3.84 Mcps TDD	Rel-6
- 2 nd 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	

Information Element	Value/remark	Version
- 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	
- CCTrCH identity	2	Rel-6
- TFCS		
- CHOICE TFCI signalling	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 6.11.	
- 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 mode	1.28/3.84 Mcps TDD	
- Common timeslot info MBMS		
- 2 nd 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 mode	1.28/3.84 Mcps TDD	
- Common timeslot info MBMS		
- 2 nd 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"	

Information Element	Value/remark	Version
- Power offset information	Not Present	
- CCTrCH identity	2	Rel-6
- TFCS		
- CHOICE TFCI signalling	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	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		Rel-6
- CHOICE mode	7.68 Mcps TDD	Rel-6
- 2 nd 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 mode	1.28/3.84 Mcps TDD	Rel-6
- 2 nd 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			RBS3-001
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3	Rel-5 Rel-6	RBS3-002 RBS3-003 RBS3-004
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.		RBS3-005
- message authentication code		SS provides the value of this IE, from its internal counter.		RBS3-006
- RRC message sequence number				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 Rel-6	RBS3-010 RBS3-011 RBS3-012
Activation time	A4, A5, A6, A7, A8 A10	Not Present	Rel-5	RBS3-013 RBS3-014
New U-RNTI	A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10	Not Present	Rel-5 Rel-6	RBS3-015 RBS3-016 RBS3-017
New C-RNTI	A1, A2, A3, A4, A7, A8, A11 , A9, A10	Not Present	Rel-5 Rel-6	RBS3-018 RBS3-019 RBS3-020
New C-RNTI	A5, A6	'1010 1010 1010 1010'	Rel-5 Rel-6	RBS3-021 RBS3-022
New DSCH-RNTI	A1, A2, A3, A4, A5, A6, A7, A8, A11	Not Present		
New H-RNTI	A1, A2, A3, A4, A5, A6, A7, A8, A11	Not Present	Rel-5	RBS3-023
New H-RNTI	A9, A10	'1010 1010 1010 1010'	Rel-5	RBS3-024
Choice mode	A12, A13, A14, A15	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
- New E-RNTI	A12, A13, A14, A15, A16	'1010 1010 1010 1010'	Rel-7	RBS3-027
RRC State indicator	A1, A2, A3, A4, A7, A8, A11 , A9, A10	CELL_DCH		RBS3-028 RBS3-029
RRC State indicator	A5, A6	CELL_FACH	Rel-5 Rel-6	RBS3-030 RBS3-031
				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 Rel-7	RBS3-033 RBS3-034 RBS3-035
CN information info		Not Present		RBS3-036
URA identity		Not Present		RBS3-037
CHOICE Specification mode		Complete specification	Rel-6	RBS3-038
- Signalling RB information to setup		Not Present		RBS3-039
- RAB information for setup	A1, A7	0000 0001B		RBS3-040
- RAB info		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-041
- RAB identity		CS domain		RBS3-042
- CN domain identity		Not Present		RBS3-043
- NAS Synchronization Indicator		useT314		RBS3-044
- Re-establishment timer				RBS3-045
- RB information to setup		10		RBS3-046
- RB identity		Not Present		RBS3-047
- PDCP info		RLC info		RBS3-048
- CHOICE RLC info type		TM RLC		RBS3-049
- CHOICE Uplink RLC mode		Not Present		RBS3-050
- Transmission RLC discard		FALSE		RBS3-051
- Segmentation indication		TM RLC		RBS3-052
- CHOICE Downlink RLC mode		FALSE		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				RBS3-064
- Number of downlink RLC logical channels		1		RBS3-065
- Downlink transport channel type		DCH		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		RBS3-070
- RAB info		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-071
- RAB identity		CS domain		RBS3-072
- CN domain identity		Not Present		RBS3-073
- NAS Synchronization Indicator		useT314		RBS3-074
- Re-establishment timer				RBS3-075
- RB information to setup		10		RBS3-076
- RB identity		Not Present		RBS3-077
- PDCP info		RLC info		RBS3-078
- CHOICE RLC info type		TM RLC		RBS3-079
- CHOICE Uplink RLC mode		Not Present		RBS3-080
- Transmission RLC discard				RBS3-081
- Segmentation indication		FALSE		RBS3-082
- CHOICE Downlink RLC mode		TM RLC		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		(AM DTCH for PS domain)		RBS3-146
- RAB info		0000 0101B		RBS3-147
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-148
relocation	A3, A4, A5, A6			
- CN domain identity		PS domain		RBS3-149
- NAS Synchronization Indicator		Not Present		RBS3-150
- Re-establishment timer		useT315		RBS3-151
- RB information to setup		20		RBS3-152
- RB identity				RBS3-153
- PDCP info				RBS3-154
- Support for lossless SRNS				RBS3-155
information				
- CHOICE RLC info type		RLC info		RBS3-159
- CHOICE Uplink RLC mode		AM RLC		RBS3-160
- Transmission RLC discard		No Discard		RBS3-161
- CHOICE SDU discard mode		15		RBS3-162
- MAX_DAT		128		RBS3-163
- Transmission window size		500		RBS3-164
- Timer_RST		4		RBS3-165
- Max_RST				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		2 RBMuxOptions		RBS3-184
- Information for each multiplexing option				RBS3-185
- RLC logical channel mapping indicator		Not Present		RBS3-186

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 info				RBS3-193
- 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 info				RBS3-207
- 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	(high-speed AM DTCH for PS domain)	Rel-5	RBS3-213
- RAB info		0000 0101B		RBS3-214
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-215
- CN domain identity		PS domain		RBS3-216
- NAS Synchronization Indicator		Not Present		RBS3-217
- Re-establishment timer		useT315		RBS3-218
- RB information to setup		25		RBS3-219
- RB identity				RBS3-220
- PDCP info				RBS3-221
- Support for lossless SRNS relocation				RBS3-222
- Max PDCP SN window size		Not present		RBS3-223
- PDCP PDU header		Absent		RBS3-224
- Header compression information		Not present		RBS3-225
- CHOICE RLC info type		RLC info		RBS3-226
- CHOICE Uplink RLC mode		AM RLC		RBS3-227
- Transmission RLC discard		No Discard		RBS3-228
- CHOICE SDU discard mode		15		RBS3-229
- MAX_DAT		128		RBS3-230
- Transmission window size		500		RBS3-231
- Timer_RST		4		RBS3-232
- Max_RST				RBS3-233
- Polling info		100		RBS3-234
- Timer_poll_prohibit				RBS3-235

Information Element	Condition	Value/remark	Version	Index
- 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		100 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set TRUE		RBS3-236 RBS3-237 RBS3-238 RBS3-239 RBS3-240 RBS3-241 RBS3-242 RBS3-243 RBS3-244 RBS3-245
- 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 option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RLC logical channel mapping		768 100 Not Present TRUE Not Present FALSE 3 RBMuxOptions Not Present 1 DCH 1 Not Present Configured 8 1 DCH 6 Not Present Not Present Not Present Not Present 1 DCH 1 Not Present Configured 8 1 HS-DSCH Not Present Not Present 0 Not Present Not Present		RBS3-246 RBS3-247 RBS3-248 RBS3-249 RBS3-250 RBS3-251 RBS3-252 RBS3-253 RBS3-254 RBS3-255 RBS3-256 RBS3-257 RBS3-258 RBS3-259 RBS3-260 RBS3-261 RBS3-262 RBS3-263 RBS3-264 RBS3-265 RBS3-266 RBS3-267 RBS3-268 RBS3-269 RBS3-270 RBS3-271 RBS3-272 RBS3-273 RBS3-274 RBS3-275 RBS3-276 RBS3-277 RBS3-278 RBS3-279 RBS3-280 RBS3-281 RBS3-282 RBS3-283

Information Element	Condition	Value/remark	Version	Index
indicator		1 RACH Not Present 7 Explicit list Reference to clause 6 Parameter Set 8		RBS3-284 RBS3-285 RBS3-286 RBS3-287 RBS3-288 RBS3-289 RBS3-290 RBS3-291
info		1 FACH		RBS3-292 RBS3-293
logical channels		Not Present		RBS3-294
type		Not Present		RBS3-295
identity				
identity				
- Logical channel identity		7		RBS3-296
- RAB information for setup	A10	(high-speed AM DTCH for PS domain) 0000 0101B	Rel-5	RBS3-297 RBS3-298 RBS3-299
- RAB info		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		
- RAB identity		PS domain Not Present useT315		RBS3-300 RBS3-301 RBS3-302
- CN domain identity		25		RBS3-303
- NAS Synchronization Indicator				RBS3-304
- Re-establishment timer				RBS3-305
- RB information to setup				RBS3-306
- RB identity				
- PDCP info				
- Support for lossless SRNS relocation				
- Max PDCP SN window size		FALSE		
- PDCP PDU header		Not present		RBS3-307
- Header compression		Absent		RBS3-308
information		Not present		RBS3-309
- CHOICE RLC info type		RLC info		RBS3-310
- CHOICE Uplink RLC mode		AM RLC		RBS3-311
- Transmission RLC discard		No Discard		RBS3-312
- CHOICE SDU discard mode		15		RBS3-313
- MAX_DAT		128		RBS3-314
- Transmission window size		500		RBS3-315
- Timer_RST		4		RBS3-316
- Max_RST				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		1 RBMuxOption		RBS3-337
- Information for each multiplexing option		Not present		RBS3-338
- RLC logical channel mapping indicator		1		RBS3-339
- Number of uplink RLC logical channels		DCH		RBS3-340
- Uplink transport channel type		1		RBS3-341
- UL Transport channel identity		Not Present		RBS3-342
- Logical channel identity		Configured		RBS3-343
- CHOICE RLC size list		8		RBS3-344
- MAC logical channel priority				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	A11			RBS3-353
- RAB info		(AM DTCH for PS domain) 0000 0101B		RBS3-354
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-355
- CN domain identity		PS domain		RBS3-356
- NAS Synchronization Indicator		Not Present		RBS3-357
- Re-establishment timer		useT315		RBS3-358
- RB information to setup		20		RBS3-359
- RB identity		FALSE		RBS3-360
- PDCP info		Not present		RBS3-361
- Support for lossless SRNS relocation		Absent		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		No Discard		RBS3-368
- CHOICE SDU discard mode		15		RBS3-369
- MAX_DAT		128		RBS3-370
- Transmission window size		500		RBS3-371
- Timer_RST		4		RBS3-372
- Max_RST				RBS3-373
- Polling info		200		RBS3-374
- Timer_poll_prohibit		200		RBS3-375
- Timer_poll		Not Present		RBS3-376
- Poll_PDU		1		RBS3-377
- Poll_SDU		TRUE		RBS3-378
- Last transmission PDU poll		TRUE		RBS3-379
- Last retransmission PDU poll		99		RBS3-380
- Poll_Windows		Not Present		RBS3-381
- Timer_poll_periodic		AM RLC		RBS3-382
- CHOICE Downlink RLC mode		TRUE		RBS3-383
- In-sequence delivery		128		RBS3-384
- Receiving window size		200		RBS3-385
- Downlink RLC status info		Not Present		RBS3-386
- Timer_status_prohibit		TRUE		RBS3-387
- Timer_EPC		Not Present		RBS3-388
- Missing PDU indicator		TRUE		RBS3-389

Information Element	Condition	Value/remark	Version	Index
- Timer_STATUS_periodic		Not Present		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
info		DCH		RBS3-395
- Uplink transport channel type		4		RBS3-396
- UL Transport channel identity		Not Present		RBS3-397
- Logical channel identity		Configured		RBS3-398
- CHOICE RLC size list		8		RBS3-399
- MAC logical channel priority				RBS3-400
- Downlink RLC logical channel info				RBS3-401
- Number of downlink RLC logical channels		1		RBS3-402
type		DCH		RBS3-403
- Downlink transport channel identity		9		RBS3-404
- DL DCH Transport channel identity		Not Present		RBS3-405
- DL DSCH Transport channel identity		Not Present		RBS3-406
- Logical channel identity				RBS3-407
- RLC logical channel mapping indicator		Not Present		RBS3-408
- RAB information for setup	A12	(high-speed AM DTCH for PS domain) 0000 0101B	Rel-7	RBS3-409
- RAB info		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		
- RAB identity		PS domain		RBS3-410
		Not Present		RBS3-411
		useT315		RBS3-412
		25		RBS3-413
				RBS3-414
		FALSE		RBS3-415
				RBS3-416
- CN domain identity		Not present		RBS3-417
- NAS Synchronization Indicator		Absent		RBS3-418
- Re-establishment timer		Not present		RBS3-419
- RB information to setup		RLC info		RBS3-420
- RB identity		AM RLC		RBS3-421
- PDCP info		No Discard		RBS3-422
- Support for lossless SRNS relocation		15		RBS3-423
- Max PDCP SN window size		256		RBS3-424
- PDCP PDU header		500		RBS3-425
- Header compression information		4		RBS3-426
- CHOICE RLC info type				RBS3-427
- CHOICE Uplink RLC mode		100		RBS3-428
- Transmission RLC discard		100		RBS3-429
- CHOICE SDU discard mode		Not Present		RBS3-430
- MAX_DAT		1		RBS3-431
- Transmission window size		TRUE		RBS3-432
- Timer_RST		TRUE		RBS3-433
- Max_RST		99		RBS3-434
- Polling info		Not Present		RBS3-435
- Timer_poll_prohibit		AM RLC		RBS3-436
- Timer_poll		Reference to clause 6 Parameter Set		RBS3-437
- Poll_PDU				RBS3-438
- Poll_SDU				RBS3-439
- Last transmission PDU poll		TRUE		RBS3-440
- Last retransmission PDU poll		768		RBS3-441
- Poll_Windows				
- Timer_poll_periodic				
- CHOICE Downlink RLC mode				
- CHOICE Downlink RLC PDU				
Size				
- In-sequence delivery				
- Receiving window size				
- Downlink RLC status info				

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	3 RBMuxOptions	RBS3-447		
- Information for each multiplexing option	Not Present	RBS3-448		
- RLC logical channel mapping indicator	1	RBS3-449		
- Number of uplink RLC logical channels	DCH	RBS3-450		
- Uplink transport channel type	1	RBS3-451		
- UL Transport channel identity	Not Present	RBS3-452		
- Logical channel identity	Configured	RBS3-453		
- CHOICE RLC size list	8	RBS3-454		
- MAC logical channel priority		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		1		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	A13, A14	(high-speed AM DTCH for PS domain) 0000 0101B	Rel-7	RBS3-493
- RAB info		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-494
- RAB identity		PS domain		RBS3-495
- CN domain identity		Not Present		RBS3-496
- NAS Synchronization Indicator		useT315		RBS3-497
- Re-establishment timer				RBS3-498
- RB information to setup		25		RBS3-499
- RB identity				RBS3-500
- PDCP info		FALSE		RBS3-501
- Support for lossless SRNS relocation				RBS3-502
- Max PDCP SN window size		Not present		RBS3-503
- PDCP PDU header		Absent		RBS3-504
- Header compression information		Not present		RBS3-505
- 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		100		RBS3-514
- Timer_poll_prohibit		100		RBS3-515
- Timer_poll		Not Present		RBS3-516
- Poll_PDU		1		RBS3-517
- Poll_SDU		TRUE		RBS3-518
- Last transmission PDU poll		TRUE		RBS3-519
- Last retransmission PDU poll		99		RBS3-520
- Poll_Windows		Not Present		RBS3-521
- Timer_poll_periodic		AM RLC		RBS3-522
- CHOICE Downlink RLC mode		Reference to clause 6 Parameter Set		RBS3-523
- CHOICE Downlink RLC PDU Size				RBS3-524
- 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-establishment		FALSE		RBS3-532
- RB mapping info				RBS3-533
- Information for each multiplexing option		1 RBMuxOption		RBS3-534
- RLC logical channel mapping indicator		Not Present		RBS3-535
- Number of uplink RLC logical channels		1		RBS3-536
- 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
- RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - 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 - DL HS-DSCH MAC-d flow identity - Logical channel identity - RAB information for setup - RAB info - RAB identity	A15	1 RLC PDU size 336 bits TRUE 8 1 HS-DSCH Not present Not present 0 Not Present (second high-speed AM DTCH for PS domain) 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 17 FALSE Not present Absent Not present RLC info AM RLC No Discard 15 256 500 4 100 100 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set	Rel-7	RBS3-541 RBS3-542 RBS3-543 RBS3-544 RBS3-545 RBS3-546 RBS3-547 RBS3-548 RBS3-549 RBS3-550 RBS3-551 RBS3-552 RBS3-553 RBS3-554 RBS3-555 RBS3-556 RBS3-557 RBS3-558 RBS3-559 RBS3-560 RBS3-561 RBS3-562 RBS3-563 RBS3-564 RBS3-565 RBS3-566 RBS3-567 RBS3-568 RBS3-569 RBS3-570 RBS3-571 RBS3-572 RBS3-573 RBS3-574 RBS3-575 RBS3-576 RBS3-577 RBS3-578 RBS3-579 RBS3-580 RBS3-581 RBS3-582 RBS3-583 RBS3-584 RBS3-585 RBS3-586 RBS3-587 RBS3-588 RBS3-589 RBS3-590 RBS3-591 RBS3-592 RBS3-593
- 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		TRUE 768 100 Not Present TRUE Not Present FALSE 1 RBMuxOption		

Information Element	Condition	Value/remark	Version	Index
option		Not Present		RBS3-594
- RLC logical channel mapping				
indicator		1		RBS3-595
- Number of uplink RLC logical channels				
- Uplink transport channel type		E-DCH		RBS3-596
- Logical channel identity		8		RBS3-597
- E-DCH MAC-d flow identity		3		RBS3-598
- DDI		6		RBS3-599
- RLC PDU size list		1 RLC PDU size		RBS3-600
- RLC PDU size		336 bits		RBS3-601
- Include in scheduling info		TRUE		RBS3-602
- MAC logical channel priority		8		RBS3-603
- Downlink RLC logical channel				RBS3-604
info				
- Number of downlink RLC logical channels		1		RBS3-605
- Downlink transport channel		HS-DSCH		RBS3-606
type				
- DL DCH Transport channel		Not present		RBS3-607
identity				
- DL DSCH Transport channel		Not present		RBS3-608
identity				
- DL HS-DSCH MAC-d flow		2		RBS3-609
identity				
- Logical channel identity		Not Present		RBS3-610
- RAB information for setup		(Conversational UM DTCH for PS domain)	Rel-6	RBS3-611
- RAB info		0000 0110B		RBS3-612
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-613
		PS domain		RBS3-614
		Not Present		RBS3-615
		useT314		RBS3-616
				RBS3-617
		27		RBS3-618
				RBS3-619
		FALSE		RBS3-620
relocation				
- CN domain identity		Not present		RBS3-621
- NAS Synchronization Indicator		Absent		RBS3-622
- Re-establishment timer		Not present		RBS3-623
- RB information to setup				
- RB identity		RLC info		RBS3-624
- PDCP info		UM RLC		RBS3-625
- Support for lossless SRNS		Not present		RBS3-626
information		UM RLC		RBS3-627
- CHOICE RLC info type		7		RBS3-628
- CHOICE Uplink RLC mode		32		RBS3-629
- Transmission RLC discard		FALSE		RBS3-630
- CHOICE Downlink RLC mode				
- DL UM RLC LI size		Not present		RBS3-631
- DL Reception Window Size		Not present		RBS3-632
- One sided RLC re-establishment		1 RBMuxOption		RBS3-633
- Alternative E-bit interpretation				
- RB mapping info		Not Present		RBS3-634
- Information for each multiplexing option		1		RBS3-635
- RLC logical channel mapping		E-DCH		RBS3-636
indicator		9		RBS3-637
- Number of uplink RLC logical channels		4		RBS3-638
- Uplink transport channel type		7		RBS3-639
- Logical channel identity		12 RLC PDU sizes		RBS3-640
- E-DCH MAC-d flow identity		96 bits		RBS3-641
- DDI				
- RLC PDU size list				
- RLC PDU size				

Information Element	Condition	Value/remark	Version	Index
- RLC PDU size		112 bits		RBS3-642
- RLC PDU size		144 bits		RBS3-643
- RLC PDU size		160 bits		RBS3-644
- RLC PDU size		176 bits		RBS3-645
- RLC PDU size		192 bits		RBS3-646
- RLC PDU size		208 bits		RBS3-647
- RLC PDU size		224 bits		RBS3-648
- RLC PDU size		288 bits		RBS3-649
- RLC PDU size		296 bits		RBS3-650
- RLC PDU size		312 bits		RBS3-651
- RLC PDU size		336 bits		RBS3-652
- Include in scheduling info		TRUE		RBS3-653
- MAC logical channel priority		8		RBS3-654
- Downlink RLC logical channel info				RBS3-655
- Number of downlink RLC logical channels		1		RBS3-656
- Downlink transport channel type		HS-DSCH		RBS3-657
- DL DCH Transport channel identity		Not present		RBS3-658
- DL DSCH Transport channel identity		Not present		RBS3-659
- DL HS-DSCH MAC-d flow identity		3		RBS3-660
- Logical channel identity		Not Present		RBS3-661
RB information to reconfigure list	A1, A2, A3, A4, A5, A6, A7, A8 A9, A10 A12, A13, A14, A15, A16	Not Present Not Present	Rel-5 Rel-7	RBS3-662 RBS3-663 RBS3-664
RB information to be affected	A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12 A13, A15	Not Present		RBS3-665
RB information to be affected			Rel-5 Rel-7 Rel-7	RBS3-666 RBS3-667 RBS3-668
- RB identity		1 (UM DCCH for RRC)		RBS3-669
- RB mapping info		1 RBMuxOption		RBS3-670 RBS3-671
- Information for each multiplexing option		Not Present		RBS3-672
- RLC logical channel mapping indicator		1		RBS3-673
- Number of uplink RLC logical channels		E-DCH		RBS3-674
- Uplink transport channel type		1		RBS3-675
- Logical channel identity		1		RBS3-676
- E-DCH MAC-d flow identity		1		RBS3-677
- DDI		1 RLC PDU size		RBS3-678
- RLC PDU size list		144 bits		RBS3-679
- RLC PDU size		FALSE		RBS3-680
- Include in scheduling info		1		RBS3-681
- MAC logical channel priority				RBS3-682
- Downlink RLC logical channel info		1		RBS3-683
- Number of RLC logical channels		DCH		RBS3-684
- Downlink transport channel type		10		RBS3-685
- DL DCH Transport channel identity		Not Present		RBS3-686
- DL DSCH Transport channel identity		1		RBS3-687
- Logical channel identity		2 (AM DCCH for RRC)		RBS3-688
- RB identity		1 RBMuxOption		RBS3-689
- RB mapping info				RBS3-690
- Information for each multiplexing option				

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		1 RBMuxOption		RBS3-708
- Information for each multiplexing option		Not Present		RBS3-709
- RLC logical channel mapping indicator		1		RBS3-710
- Number of uplink RLC logical channels				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		1 RBMuxOption		RBS3-727
- Information for each multiplexing option		Not Present		RBS3-728
- RLC logical channel mapping indicator		1		RBS3-729
- Number of uplink RLC logical channels				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				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	A14, A16	1 (UM DCCH for RRC)	Rel-7	RBS3-745
- RB identity		1 RBMuxOption		RBS3-746
- RB mapping info		Not Present		RBS3-747
- Information for each multiplexing option		1		RBS3-748
- RLC logical channel mapping indicator		E-DCH		RBS3-749
- Number of uplink RLC logical channels		1		RBS3-750
- Uplink transport channel type		1		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		1		RBS3-759
- Number of RLC logical channels		HS-DSCH		RBS3-760
- Downlink transport channel type		Not present		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		1 RBMuxOption		RBS3-767
- Information for each multiplexing option		Not Present		RBS3-768
- RLC logical channel mapping indicator		1		RBS3-769
- Number of uplink RLC logical channels		E-DCH		RBS3-770
- Uplink transport channel type		2		RBS3-771
- Logical channel identity		1		RBS3-772
- E-DCH MAC-d flow identity		2		RBS3-773
- DDI		1 RLC PDU size		RBS3-774
- RLC PDU size list		144 bits		RBS3-775
- RLC PDU size		FALSE		RBS3-776
- Include in scheduling info		2		RBS3-777
- MAC logical channel priority		1		RBS3-778
- Downlink RLC logical channel info		1		RBS3-779
- Number of RLC logical channels		HS-DSCH		RBS3-780
- Downlink transport channel type		Not Present		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		1 RBMuxOption		RBS3-787
- Information for each multiplexing option		Not Present		RBS3-788
- RLC logical channel mapping indicator		1		RBS3-789
- Number of uplink RLC logical channels		E-DCH		RBS3-790
- Uplink transport channel type		3		RBS3-791
- Logical channel identity		1		RBS3-792
- E-DCH MAC-d flow identity		3		RBS3-793
- DDI		1 RLC PDU size		RBS3-794
- RLC PDU size list		144 bits		RBS3-795
- RLC PDU size		FALSE		RBS3-796
- Include in scheduling info		3		RBS3-797
- MAC logical channel priority				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		1 RBMuxOption		RBS3-807
- Information for each multiplexing option		Not Present		RBS3-808
- RLC logical channel mapping indicator		1		RBS3-809
- Number of uplink RLC logical channels		E-DCH		RBS3-810
- Uplink transport channel type		4		RBS3-811
- Logical channel identity		1		RBS3-812
- E-DCH MAC-d flow identity		4		RBS3-813
- DDI		1 RLC PDU size		RBS3-814
- RLC PDU size list		144 bits		RBS3-815
- RLC PDU size		FALSE		RBS3-816
- Include in scheduling info		4		RBS3-817
- MAC logical channel priority				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, A12, A13, A14, A15	Not Present		RBS3-826
PDCP ROHC target mode	A9, A10, A12, A13, A14, A15	Not Present	Rel-5 Rel-7 Rel-5 Rel-7	RBS3-827 RBS3-828 RBS3-829 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	Not Present TDD	Rel-5	RBS3-831 RBS3-832 RBS3-833 RBS3-834 RBS3-835
- PRACH TFCS - CHOICE mode - Individual UL CCTrCH information - UL TFCS Identity - TFCS ID - Shared Channel Indicator - UL TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information - CTFC - Power offset information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - CHOICE Gain Factors - CHOICE mode - Gain factor β_d - Reference TFC ID - CHOICE mode - TFC subset - TFC subset list		1 FALSE Normal Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4 Parameter Set. This IE is repeated for TFC numbers and reference to clause 6.10.3.4 Parameter Set Reference to clause 6.10.3.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 0 Integer(0.. 3) TDD Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) TDD 8 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) 0 TDD Not Present Not Present	R99 and Rel-4 only	RBS3-836 RBS3-837 RBS3-838 RBS3-839 RBS3-840 RBS3-841 RBS3-842 RBS3-843 RBS3-844 RBS3-845 RBS3-846 RBS3-847 RBS3-848 RBS3-849 RBS3-850 RBS3-851 RBS3-852 RBS3-853 RBS3-854 RBS3-855 RBS3-856 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 ((UL DCH RAB, DCCH)=(TF0, TF0))			RBS3-872
- Power offset information				RBS3-873
- CHOICE Gain Factors		Computed Gain Factors		RBS3-874
- CTFC	1 ((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 β_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 A13, A14, A15, A16 DCH 5 A1, A3 A4, A5, A6, A7, A9, A10	Not Present		RBS3-885
Deleted UL TrCH information			Rel-5	RBS3-886
- Uplink transport channel type			Rel-7	RBS3-887
- UL transport channel identity			Rel-7	RBS3-888
Added or Reconfigured UL TrCH information		1 DCH added, 1 DCH reconfigured (if from cell_DCH) OR 2 DCHs added (if from cell_FACH)	Rel-5	RBS3-889
- Uplink transport channel type		DCH		RBS3-890
- UL Transport channel identity		1		RBS3-891
- TFS		Dedicated transport channels		RBS3-892
- CHOICE Transport channel type				RBS3-893
- Dynamic Transport format information				RBS3-894
- RLC Size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS3-895
- Number of TBs and TTI List		Not Present		RBS3-896
- Transmission Time Interval		Reference to clause 6.10 Parameter Set		RBS3-897
- Number of Transport blocks		All		RBS3-898
- CHOICE Logical channel list				RBS3-899
- Semi-static Transport Format information				RBS3-900
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS3-901
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS3-902
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS3-903
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS3-904
- CRC size		Reference to clause 6.10 Parameter Set		RBS3-905
- Uplink transport channel type		DCH		RBS3-906
- UL Transport channel identity		5		RBS3-907
- TFS		Dedicated transport channels		RBS3-908
- CHOICE Transport channel type				RBS3-909
- Dynamic Transport format information				RBS3-910
- RLC Size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS3-911
- Number of TBs and TTI List		Not Present		RBS3-912
- Transmission Time Interval		Reference to clause 6.10 Parameter Set		RBS3-913
- Number of Transport blocks		All		RBS3-914
- CHOICE Logical channel list				RBS3-915
- Semi-static Transport Format information				RBS3-916
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS3-917
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS3-918
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS3-919
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS3-920
- CRC size		Reference to clause 6.10 Parameter Set		RBS3-921
Added or Reconfigured UL TrCH information	A11	Reference to clause 6.10 Parameter Set 1 DCH added for DTCH		RBS3-922
- Uplink transport channel type		DCH		RBS3-923
- UL Transport channel identity		4		RBS3-924
- TFS		Dedicated transport channels		RBS3-925
- CHOICE Transport channel type				RBS3-926
- Dynamic Transport format information				RBS3-927
- RLC Size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS3-928
- Number of TBs and TTI List		Not Present		RBS3-929
- Transmission Time Interval		Reference to clause 6.10 Parameter Set		RBS3-930
- Number of Transport blocks				RBS3-931

Information Element	Condition	Value/remark	Version	Index
- CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		All		RBS3-935 RBS3-936
Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding	A2, A8	Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) DCH 5 Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set		RBS3-937 RBS3-938 RBS3-939 RBS3-940 RBS3-941 RBS3-942 RBS3-943 RBS3-944 RBS3-945 RBS3-946 RBS3-947 RBS3-948 RBS3-949 RBS3-950 RBS3-951 RBS3-952 RBS3-953 RBS3-954 RBS3-955
- Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set DCH 1 Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set DCH 2 Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set DCH 3		RBS3-956 RBS3-957 RBS3-958 RBS3-959 RBS3-960 RBS3-961 RBS3-962 RBS3-963 RBS3-964 RBS3-965 RBS3-966 RBS3-967 RBS3-968 RBS3-969 RBS3-970 RBS3-971 RBS3-972 RBS3-973 RBS3-974 RBS3-975 RBS3-976 RBS3-977 RBS3-978 RBS3-979 RBS3-980 RBS3-981 RBS3-982 RBS3-983 RBS3-984 RBS3-985 RBS3-986 RBS3-987 RBS3-988 RBS3-989 RBS3-990 RBS3-991 RBS3-992 RBS3-993

Information Element	Condition	Value/remark	Version	Index
- CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set		RBS3-994 RBS3-995 RBS3-996 RBS3-997 RBS3-998 RBS3-999 RBS3-1000 RBS3-1001 RBS3-1002 RBS3-1003 RBS3-1004 RBS3-1005 RBS3-1006
Added or Reconfigured UL TrCH information - Uplink transport channel type - CHOICE UL parameters - CHOICE mode - HARQ info for E-DCH - CHOICE UL parameters - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding	A12	1 E-DCH added, 1 DCH added, 1 DCH reconfigured E-DCH E-DCH TDD E-DCH rvtable 2 0 7 Not Present Scheduled grant info DCH 1 Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set DCH 5 Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set	Rel-7	RBS3-1007 RBS3-1008 RBS3-1009 RBS3-1010 RBS3-1011 RBS3-1012 RBS3-1013 RBS3-1014 RBS3-1015 RBS3-1016 RBS3-1017 RBS3-1018 RBS3-1019 RBS3-1020 RBS3-1021 RBS3-1022 RBS3-1023 RBS3-1024 RBS3-1025 RBS3-1026 RBS3-1027 RBS3-1028 RBS3-1029 RBS3-1030 RBS3-1031 RBS3-1032 RBS3-1033 RBS3-1034 RBS3-1035 RBS3-1036 RBS3-1037 RBS3-1038 RBS3-1039 RBS3-1040 RBS3-1041 RBS3-1042 RBS3-1043 RBS3-1044 RBS3-1045 RBS3-1046 RBS3-1047 RBS3-1048

Information Element	Condition	Value/remark	Version	Index
- Coding Rate - Rate matching attribute - CRC size		Reference to clause 6.10 Parameter Set		RBS3-1049
Added or Reconfigured UL TrCH information		Reference to clause 6.10 Parameter Set		RBS3-1050
- Uplink transport channel type - CHOICE UL parameters - CHOICE mode - HARQ info for E-DCH - CHOICE mode - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow	A13, A14	Reference to clause 6.10 Parameter Set 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow E-DCH E-DCH TDD TDD rvtable (for DCCH)	Rel-7	RBS3-1051 RBS3-1052 RBS3-1053 RBS3-1054 RBS3-1055 RBS3-1056 RBS3-1057 RBS3-1058 RBS3-1059
- E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset		1 0		RBS3-1060 RBS3-1061
- 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 - CHOICE TDD option - Timeslot resource related information		TDD 3.84/7.68Mcps TDD Bit map with all TS configured for E-DCH operation set to '1' all others set to '0'		RBS3-1065 RBS3-1066 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 (for DTCH)		RBS3-1071 RBS3-1072
- Added or reconfigured E-DCH MAC-d flow		2 0		RBS3-1073 RBS3-1074
- E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset		7		RBS3-1075
- E-DCH MAC-d flow maximum number of retransmissions		Not Present		RBS3-1076
- E-DCH MAC-d flow multiplexing list		Scheduled grant info		RBS3-1077
- CHOICE transmission grant type		1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows	Rel-7	RBS3-1078
Added or Reconfigured UL TrCH information	A15	E-DCH E-DCH TDD TDD rvtable (for DCCH)		RBS3-1079 RBS3-1080 RBS3-1081 RBS3-1082 RBS3-1083 RBS3-1084 RBS3-1085
- Uplink transport channel type - CHOICE UL parameters - CHOICE mode - HARQ info for E-DCH - CHOICE mode - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow		1 0		RBS3-1086 RBS3-1087
- E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset		7		RBS3-1088
- E-DCH MAC-d flow maximum number of retransmissions		Not Present		RBS3-1089
- E-DCH MAC-d flow multiplexing list		Non-scheduled grant info		RBS3-1090
- CHOICE transmission grant type		TDD 3.84/7.68Mcps TDD Bit map with all TS configured for E-DCH operation set to '1' all others set to '0'		RBS3-1091 RBS3-1092 RBS3-1093

Information Element	Condition	Value/remark	Version	Index
- Power Resource Related Information - Activation time - Repetition period and length - Code resource information - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type Added or Reconfigured UL TrCH information - Uplink transport channel type - CHOICE UL parameters - CHOICE mode - HARQ info for E-DCH - CHOICE mode - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type - CHOICE mode - CHOICE TDD option - Timeslot resource related information - Power Resource Related Information - Activation time - Repetition period and length - Code resource information - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow	A16	32 Set to the CFN on which the non-scheduled grant becomes active Not present 2/1 (for first DTCH) 2 0 7 Not Present Scheduled grant info (for second DTCH) 3 0 7 Not Present Scheduled grant info 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows E-DCH E-DCH TDD TDD rvtable (for DCCH) 1 0 7 Not Present Non-scheduled grant info TDD 3.84/7.68Mcps TDD Bit map with all TS configured for E-DCH operation set to '1' all others set to '0' 32 Set to the CFN on which the non-scheduled grant becomes active Not present 2/1 (for first DTCH) 2 0 7 Not Present	Rel-7	RBS3-1094 RBS3-1095 RBS3-1096 RBS3-1097 RBS3-1098 RBS3-1099 RBS3-1100 RBS3-1101 RBS3-1102 RBS3-1103 RBS3-1104 RBS3-1105 RBS3-1106 RBS3-1107 RBS3-1108 RBS3-1109 RBS3-1110 RBS3-1111 RBS3-1112 RBS3-1113 RBS3-1114 RBS3-1115 RBS3-1116 RBS3-1117 RBS3-1118 RBS3-1119 RBS3-1120 RBS3-1121 RBS3-1122 RBS3-1123 RBS3-1124 RBS3-1125 RBS3-1126 RBS3-1127 RBS3-1128 RBS3-1129 RBS3-1130 RBS3-1131 RBS3-1132 RBS3-1133 RBS3-1134

Information Element	Condition	Value/remark	Version	Index
multiplexing list - CHOICE transmission grant type - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow		Scheduled grant info (for second DTCH) 4 0 7 Not Present		RBS3-1135 RBS3-1136 RBS3-1137 RBS3-1138 RBS3-1139 RBS3-1140 RBS3-1141
multiplexing list - CHOICE transmission grant type	A1, A2, A7, A8	Scheduled grant info		RBS3-1142
DL Transport channel information common for all transport channel - SCCPCH TFCS		Not Present		RBS3-1143
- CHOICE mode - Individual DL CCTrCH information - DL TFCS identity - CHOICE DL parameters - UL DCH TFCS Identity		TDD 1 CCTrCh		RBS3-1144 RBS3-1145
DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information - DL TFCS identity - CHOICE DL parameters - DL TFCS - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information - CTFC - Power offset information	A3, A4, A5, A6, A11 A10 A12, A13, A15	1 SameasUL 1 Not Present TDD 1 CCTrCh 1 Independent Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4 Parameter Set. This IE is repeated for TFC numbers and reference to clause 6.10.3.4 Reference to clause 6.10.3.4 Parameter Set Not Present	Rel-5 Rel-7	RBS3-1146 RBS3-1147 RBS3-1148 RBS3-1149 RBS3-1150 RBS3-1151 RBS3-1152 RBS3-1153 RBS3-1154 RBS3-1155 RBS3-1156 RBS3-1157 RBS3-1158 RBS3-1159 RBS3-1160 RBS3-1161 RBS3-1162 RBS3-1163 RBS3-1164
DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information - DL TFCS identity - CHOICE DL parameters - DL TFCS - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information - CTFC - Power offset information	A9	Not Present TDD 1 CCTrCh 1 Independent Complete reconfiguration ctfc2bit 0 ((DL DCH RAB, DCCH)=(TF0, TF0)) Not Present 1 ((DL DCH RAB, DCCH)=(TF0, TF1)) Not Present	Rel-5	RBS3-1165 RBS3-1166 RBS3-1167 RBS3-1168 RBS3-1169 RBS3-1170 RBS3-1171 RBS3-1172 RBS3-1173 RBS3-1174 RBS3-1175 RBS3-1176 RBS3-1177 RBS3-1178 RBS3-1179 RBS3-1180
DL Transport channel information common for all transport channel	A14, A16	Not Present	Rel-7	RBS3-1181

Information Element	Condition	Value/remark	Version	Index
Deleted DL TrCH information	A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 , A12, A13	Not Present	Rel-5 Rel-7	RBS3-1182 RBS3-1183 RBS3-1184
Deleted DL TrCH information - Downlink transport channel type - DL Transport channel identity	A14, A16	DCH 10	Rel-6	RBS3-1185 RBS3-1186 RBS3-1187
Added or Reconfigured DL TrCH information	A1	1 DCH added, 1 DCH reconfigured		RBS3-1188
- Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value		DCH 6 Same as UL DCH 1 -2.0 DCH 10 Same as UL DCH 5 -2.0		RBS3-1189 RBS3-1190 RBS3-1191 RBS3-1192 RBS3-1193 RBS3-1194 RBS3-1195 RBS3-1196 RBS3-1197 RBS3-1198 RBS3-1199 RBS3-1200 RBS3-1201 RBS3-1202
Added or Reconfigured DL TrCH information	A3, A4, A5, A6, A7	2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 10 Same as UL DCH 5 -2.0 DCH 6 Explicit Except for RAB with the symmetric DL and UL rate: Same as UL		RBS3-1203 RBS3-1204 RBS3-1205 RBS3-1206 RBS3-1207 RBS3-1208 RBS3-1209 RBS3-1210 RBS3-1211 RBS3-1212 RBS3-1213
- TFS - CHOICE Transport channel type - Dynamic transport format information		Dedicated transport channel		RBS3-1214 RBS3-1215 RBS3-1216
- RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS3-1217 RBS3-1218
- CHOICE Logical channel list - Semi-static Transport Format information		Not Present		RBS3-1219
- Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute		Reference to clause 6.10 Parameter Set only including TF0		RBS3-1220
		All		RBS3-1221 RBS3-1222
		Reference to clause 6.10 Parameter Set		RBS3-1223
		Reference to clause 6.10 Parameter Set		RBS3-1224
		Reference to clause 6.10 Parameter Set		RBS3-1225
		Reference to clause 6.10 Parameter Set		RBS3-1226
Added or Reconfigured DL TrCH information	A2, A8	Reference to clause 6.10 Parameter Set -2.0 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) DCH 10 Same as UL DCH 5 2.0 DCH 6		RBS3-1227 RBS3-1228 RBS3-1229 RBS3-1230 RBS3-1231 RBS3-1232 RBS3-1233 RBS3-1234 RBS3-1235 RBS3-1236 RBS3-1237 RBS3-1238 RBS3-1239

Information Element	Condition	Value/remark	Version	Index
- CHOICE DL parameters		Explicit		RBS3-1240
- TFS		Dedicated transport channel		RBS3-1241
- CHOICE Transport channel type				RBS3-1242
- Dynamic transport format				RBS3-1243
information				
- RLC Size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS3-1244
- Number of TBs and TTI List				RBS3-1245
- Dynamic transport format				RBS3-1246
information				
- Transmission Time Interval		Not Present		RBS3-1247
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS3-1248
- CHOICE Logical channel list		All		RBS3-1249
- Semi-static Transport Format				RBS3-1250
information				
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS3-1251
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS3-1252
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS3-1253
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS3-1254
- CRC size		Reference to clause 6.10 Parameter Set		RBS3-1255
- DCH quality target		Reference to clause 6.10 Parameter Set		RBS3-1256
- BLER Quality value		Not Present		RBS3-1257
- Downlink transport channel type		DCH		RBS3-1258
- DL Transport channel identity		7		RBS3-1259
- CHOICE DL parameters		Explicit		RBS3-1260
- TFS		Dedicated transport channel		RBS3-1261
- CHOICE Transport channel type				RBS3-1262
- Dynamic transport format				RBS3-1263
information				
- RLC Size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS3-1264
- Number of TBs and TTI List				RBS3-1265
- Dynamic transport format				RBS3-1266
information				
- Transmission Time Interval		Not Present		RBS3-1267
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS3-1268
- CHOICE Logical channel list		All		RBS3-1269
- Semi-static Transport Format				RBS3-1270
information				
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS3-1271
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS3-1272
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS3-1273
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS3-1274
- CRC size		Reference to clause 6.10 Parameter Set		RBS3-1275
- DCH quality target		Not Present		RBS3-1276
- BLER Quality value		DCH		RBS3-1277
- Downlink transport channel type		8		RBS3-1278
- DL Transport channel identity		Explicit		RBS3-1279
- CHOICE DL parameters		Dedicated transport channel		RBS3-1280
- TFS				RBS3-1281
- CHOICE Transport channel type				RBS3-1282
- Dynamic transport format				RBS3-1283
information				
- RLC Size		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS3-1284
- Number of TBs and TTI List				RBS3-1285
- Dynamic transport format				RBS3-1286
information				
- Transmission Time Interval		Not Present		RBS3-1287
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS3-1288
- CHOICE Logical channel list		All		RBS3-1289
- Semi-static Transport Format				RBS3-1290
information				
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS3-1291
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS3-1292
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS3-1293
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS3-1294
- CRC size		Reference to clause 6.10 Parameter Set		RBS3-1295
- DCH quality target		Not Present		RBS3-1296
- BLER Quality value				RBS3-1297

Information Element	Condition	Value/remark	Version	Index
Added or Reconfigured DL TrCH information	A9 A12	3 TrCHs (DCH for DCCH and DCH plus HS-DSCH for DTCH) DCH 10 Same as UL DCH 5 -2.0 DCH 6 Explicit Dedicated transport channel	Rel-5 Rel-7	RBS3-1298 RBS3-1299 RBS3-1300 RBS3-1301 RBS3-1302 RBS3-1303 RBS3-1304 RBS3-1305 RBS3-1306 RBS3-1307 RBS3-1308 RBS3-1309 RBS3-1310 RBS3-1311 RBS3-1312
information		Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBS3-1313 RBS3-1314 RBS3-1315
- RLC Size		Not Present		RBS3-1316
- Number of TBs and TTI List		Reference to clause 6.10 Parameter Set		RBS3-1317
- Dynamic transport format		All		RBS3-1318
information				RBS3-1319
- Transmission Time Interval		Reference to clause 6.10 Parameter Set		RBS3-1320
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS3-1321
- CHOICE Logical channel list		Reference to clause 6.10 Parameter Set		RBS3-1322
- Semi-static Transport Format		Reference to clause 6.10 Parameter Set		RBS3-1323
information		Reference to clause 6.10 Parameter Set		RBS3-1324
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS3-1325
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS3-1326
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS3-1327
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS3-1328
- CRC size		Reference to clause 6.10 Parameter Set		RBS3-1329
- DCH quality target		Reference to clause 6.10 Parameter Set		RBS3-1330
- BLER Quality value		Reference to clause 6.10 Parameter Set		RBS3-1331
- Downlink transport channel type		Reference to clause 6.10.2.4.5 Parameter Set		RBS3-1332
- DL Transport channel identity		Implicit		
- CHOICE DL parameters				
- HARQ Info				
- Number of Processes				
- CHOICE Memory				
Partitioning				
- Added or reconfigured MAC-d flow				
- MAC-hs queue to add or reconfigure list		(one queue)		
- 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		336		RBS3-1339
- MAC-d PDU size		0		RBS3-1340
- MAC-d PDU size index		Not present		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) DCH 10 Same as UL DCH 5 -2.0 HS-DSCH Not Present HS-DSCH Reference to clause 6.10.2.4.5	Rel-5	RBS3-1344 RBS3-1345 RBS3-1346 RBS3-1347 RBS3-1348 RBS3-1349 RBS3-1350 RBS3-1351 RBS3-1352 RBS3-1353 RBS3-1354 RBS3-1355 RBS3-1356

Information Element	Condition	Value/remark	Version	Index
- CHOICE Memory <i>Partitioning</i> - Added or reconfigured MAC-d flow		Parameter Set Implicit		RBS3-1357
- MAC-hs queue to add or reconfigure list - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index		(one queue) 0 0 50 16 336 0		RBS3-1358 RBS3-1359 RBS3-1360 RBS3-1361 RBS3-1362 RBS3-1363 RBS3-1364 RBS3-1365 RBS3-1366
- MAC-hs queue to delete list - DCH quality target		Not present Not present		RBS3-1367 RBS3-1368
Added or Reconfigured DL TrCH information	A11	1 DCH for DTCH		RBS3-1369
- Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value		DCH 9 Explicit Dedicated transport channel Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set -2.0		RBS3-1370 RBS3-1371 RBS3-1372 RBS3-1373 RBS3-1374 RBS3-1375 RBS3-1376 RBS3-1377 RBS3-1378 RBS3-1379 RBS3-1380 RBS3-1381 RBS3-1382 RBS3-1383 RBS3-1384 RBS3-1385 RBS3-1386 RBS3-1387 RBS3-1388 RBS3-1389
Added or Reconfigured DL TrCH information	A13	2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Explicit Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set -20 (-2.0) HS-DSCH Not Present HS-DSCH	Rel-7	RBS3-1390 RBS3-1391 RBS3-1392 RBS3-1393 RBS3-1394 RBS3-1395 RBS3-1396 RBS3-1397 RBS3-1398 RBS3-1399 RBS3-1400 RBS3-1401 RBS3-1402 RBS3-1403 RBS3-1404 RBS3-1405 RBS3-1406 RBS3-1407 RBS3-1408 RBS3-1409 RBS3-1410 RBS3-1411 RBS3-1412

Information Element	Condition	Value/remark	Version	Index
- HARQ Info - Number of Processes - CHOICE Memory		Reference to clause 6.10 Parameter Set Implicit		RBS3-1413 RBS3-1414 RBS3-1415
<i>Partitioning</i>				
- Added or reconfigured MAC-d flow		(one queue)		RBS3-1416
- MAC-hs queue to add or reconfigure list		0		RBS3-1417
- MAC-hs queue Id		0		RBS3-1418
- MAC-d Flow Identity		0		RBS3-1419
- T1		50		RBS3-1420
- MAC-hs window size		16		RBS3-1421
- MAC-d PDU size Info		336		RBS3-1422
- MAC-d PDU size		0		RBS3-1423
- MAC-d PDU size index		Not present		RBS3-1424
- MAC-hs queue to delete list		Not present		RBS3-1425
- DCH quality target		Not present		RBS3-1426
Added or Reconfigured DL TrCH information	A14	1 TrCH (HS-DSCH for DTCH and DCCH) HS-DSCH Not Present HS-DSCH	Rel-7	RBS3-1427
- Downlink transport channel type		Reference to clause 6.10 Parameter Set Implicit		RBS3-1428
- DL Transport channel identity				RBS3-1429
- CHOICE DL parameters				RBS3-1430
- HARQ Info				RBS3-1431
- Number of Processes				RBS3-1432
- CHOICE Memory				RBS3-1433
<i>Partitioning</i>				
- Added or reconfigured MAC-d flow		(two queues)		RBS3-1434
- MAC-hs queue to add or reconfigure list		0 (for DTCH)		RBS3-1435
- MAC-hs queue Id		0		RBS3-1436
- MAC-d Flow Identity		0		RBS3-1437
- T1		50		RBS3-1438
- MAC-hs window size		16		RBS3-1439
- MAC-d PDU size Info		336		RBS3-1440
- MAC-d PDU size		0		RBS3-1441
- MAC-d PDU size index		1 (for DCCH)		RBS3-1442
- MAC-hs queue Id		1		RBS3-1443
- MAC-d Flow Identity		1		RBS3-1444
- T1		50		RBS3-1445
- MAC-hs window size		16		RBS3-1446
- MAC-d PDU size Info		148		RBS3-1447
- MAC-d PDU size		0		RBS3-1448
- MAC-d PDU size index		Not present		RBS3-1449
- MAC-hs queue to delete list		Not present		RBS3-1450
- DCH quality target		Not present		RBS3-1451
Added or Reconfigured DL TrCH information	A15	2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Explicit	Rel-7	RBS3-1452
- Downlink transport channel type		Dedicated transport channels		RBS3-1453
- DL Transport channel identity				RBS3-1454
- CHOICE DL parameters				RBS3-1455
- TFS				RBS3-1456
- CHOICE Transport channel type				RBS3-1457
- Dynamic Transport format information				RBS3-1458
- RLC Size		Reference to clause 6.10 Parameter Set		RBS3-1459
- Number of TBs and TTI List		(This IE is repeated for TFI number.)		RBS3-1460
- Transmission Time Interval		Not Present		RBS3-1461
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS3-1462
- CHOICE Logical channel list		All		RBS3-1463
- Semi-static Transport Format information				RBS3-1464
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS3-1465
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS3-1466
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS3-1467
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS3-1468
- CRC size		Reference to clause 6.10 Parameter Set		RBS3-1469

Information Element	Condition	Value/remark	Version	Index
- DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory		-20 (-2.0) HS-DSCH Not Present HS-DSCH Reference to clause 6.10 Parameter Set Implicit		RBS3-1470 RBS3-1471 RBS3-1472 RBS3-1473 RBS3-1474 RBS3-1475 RBS3-1476 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 - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index		0 (for first DTCH) 0 50 16 336 0 2 (for second DTCH) 2 50 16 336 0 Not present Not present		RBS3-1480 RBS3-1481 RBS3-1482 RBS3-1483 RBS3-1484 RBS3-1485 RBS3-1486 RBS3-1487 RBS3-1488 RBS3-1489 RBS3-1490 RBS3-1491 RBS3-1492 RBS3-1493 RBS3-1494 RBS3-1495
- DCH quality target				RBS3-1496
Added or Reconfigured DL TrCH information	A16	1 TrCH (HS-DSCH for 2 DTCHs and DCCH) HS-DSCH Not Present HS-DSCH Reference to clause 6.10 Parameter Set Implicit	Rel-7	RBS3-1496
<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 - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index		0 (for first DTCH) 0 50 16 336 0 1 (for DCCH) 1 50 16 148 0 3 (for second DTCH) 3 50 16 112 0 144 1 160 2		RBS3-1505 RBS3-1506 RBS3-1507 RBS3-1508 RBS3-1509 RBS3-1510 RBS3-1511 RBS3-1512 RBS3-1513 RBS3-1514 RBS3-1515 RBS3-1516 RBS3-1517 RBS3-1518 RBS3-1519 RBS3-1520 RBS3-1521 RBS3-1522 RBS3-1523 RBS3-1524 RBS3-1525 RBS3-1526 RBS3-1527 RBS3-1528 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 Rel-7	RBS3-1542 RBS3-1543 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 Rel-7	RBS3-1548 RBS3-1549 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 TDD Not Present Broadcast UL OL PC info TDD Enabled 3.84 Mcps TDD Determined by observed timing deviation of the RACH at the node B 1 CCTrCh 1 +20dB Not present Not present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set	R99 and Rel-4 only	RBS3-1552 RBS3-1553 RBS3-1554 RBS3-1555 RBS3-1556 RBS3-1557 RBS3-1558 RBS3-1559 RBS3-1560 RBS3-1561 RBS3-1562 RBS3-1563 RBS3-1564 RBS3-1565 RBS3-1566 RBS3-1567 RBS3-1568 RBS3-1569 RBS3-1570 RBS3-1571 RBS3-1572 RBS3-1573
codes	- Dynamic SF usage - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration - CHOICE TDD option - First timeslot Code List	TRUE The number of an uplink timeslot that has unassigned codes. TRUE 3.84 Mcps Reference to clause 6.10 Parameter Set Default Choose lowest possible Kcell value given burst type 3.84 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the		RBS3-1574 RBS3-1575 RBS3-1576 RBS3-1577 RBS3-1578 RBS3-1579 RBS3-1580 RBS3-1581 RBS3-1582 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 Not Present	Rel-5 and earlier	RBS3-1586 RBS3-1587
Uplink DPCH info	A12, A13, A14, A15, A16	TDD Not Present Broadcast UL OL PC info TDD Enabled 3.84 Mcps TDD Determined by observed timing deviation of the RACH at the node B 1 CCTrCh 1 +20dB Not present Not present Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set TRUE The number of an uplink timeslot that has unassigned codes.	Rel-7	RBS3-1588 RBS3-1589 RBS3-1590 RBS3-1591 RBS3-1592 RBS3-1593 RBS3-1594 RBS3-1595 RBS3-1596 RBS3-1597 RBS3-1598 RBS3-1599 RBS3-1600 RBS3-1601 RBS3-1602 RBS3-1603 RBS3-1604 RBS3-1605 RBS3-1606 RBS3-1607 RBS3-1608 RBS3-1609 RBS3-1610 RBS3-1611 RBS3-1612 RBS3-1613 RBS3-1614 RBS3-1615 RBS3-1616 RBS3-1617 RBS3-1618 RBS3-1619 RBS3-1620 RBS3-1621 RBS3-1622 RBS3-1623
codes		TRUE 3.84 Mcps Reference to clause 6.10 Parameter Set Default Choose lowest possible Kcell value given burst type 3.84 Mcps TDD 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.		
E-DCH info	A12, A13, A14, A15, A16	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. Not present TRUE TDD 3.84/7.68Mcps TDD	Rel-7	RBS3-1624 RBS3-1625 RBS3-1626

Information Element	Condition	Value/remark	Version	Index
- E-RUCCH info - E-RUCCH constant value - E-RUCCH persistency scaling - T-RUCCH - E-RUCCH timeslot number - E-RUCCH midamble - T-adv - T-SCHED - CHOICE TDD option - CHOICE SF - E-PUCH info - E-TFCs information - Reference Beta Information		0dB 0.9 100ms Not Present Not Present Not Present Not Present 3.84Mcps TDD Not present		RBS3-1627 RBS3-1628 RBS3-1629 RBS3-1630 RBS3-1631 RBS3-1632 RBS3-1633 RBS3-1634 RBS3-1635 RBS3-1636 RBS3-1637 RBS3-1638 RBS3-1639
QPSK list - Reference Code Rate - Reference beta - Reference Beta Information		Reference to clause 6.10 Parameter Set		
16QAM list - Reference Code Rate - Reference beta - CHOICE TDD mode - N _{E-UCCH} - E-PUCH constant value - E-PUCH TS configuration list - TS number - CHOICE Burst Type - Midamble configuration - E-PUCH code hopping - E-PUCH TPC step size - Minimum allowed code rate - Maximum allowed code rate		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set		RBS3-1640 RBS3-1641 RBS3-1642 RBS3-1643 RBS3-1644 RBS3-1645 RBS3-1646 RBS3-1647 RBS3-1648 RBS3-1649 RBS3-1650 RBS3-1651 RBS3-1652 RBS3-1653 RBS3-1654 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 A12, A13, A14, A15, A16		Rel-5 Rel-7	RBS3-1658 RBS3-1659
- HS-SCCH Info - CHOICE mode - CHOICE TDD option - Ack-Nack Power Offset - HS-SICH Power Control Info - UL SIR target - HS-SICH Constant Value - D _{hs-sync} - HS-SCCH Set Configuration - Timeslot number - Channelisation code - Midamble Allocation mode - Midamble configuration - BLER target - HS-SICH configuration - Timeslot number - Channelisation code - Midamble Allocation mode - Midamble configuration - Measurement Feedback Info - CHOICE mode - CHOICE TDD option		TDD 3.84 Mcps 0dB 0dB -10dB Not present 4 The timeslot in which HS-SCCH is to be configured CC16/x where x is a previously unassigned channelisation code in this TS Default 8 -2.4 (note that this equates to a BLER target of 0.4%, log10(0.004) = -2.4) The timeslot in which HS-SICH is to be configured CC16/x where x is a previously unassigned channelisation code in this TS Default 8 Not Present TDD 3.84 Mcps TDD		RBS3-1660 RBS3-1661 RBS3-1662 RBS3-1663 RBS3-1664 RBS3-1665 RBS3-1666 RBS3-1667 RBS3-1668 RBS3-1669 RBS3-1670 RBS3-1671 RBS3-1672 RBS3-1673 RBS3-1674 RBS3-1675 RBS3-1676 RBS3-1677 RBS3-1678 RBS3-1679 RBS3-1680 RBS3-1681

Information Element	Condition	Value/remark	Version	Index
- HS-PDSCH Timeslot Configuration - HS-PDSCH Timeslot Configuration List - Timeslot Number - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 3		Reference to clause 6.10 Parameter Set The timeslot(s) in which HS-HS-DSCH is to be configured Reference to clause 6.10 Parameter Set Default 8		RBS3-1682 RBS3-1683 RBS3-1684 RBS3-1685 RBS3-1686 RBS3-1687
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	Downlink DPCH info common for all RL Maintain Not Present	Rel-6 R99 and Rel-4 only	RBS3-1689 RBS3-1690 RBS3-1691 RBS3-1692
- CHOICE DPCH info - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value - Mac-hs reset indicator		TDD 1 Not Present TDD TDD 3.84 Mcps TDD Not Present Not Present	Rel-4	RBS3-1693 RBS3-1694 RBS3-1695 RBS3-1696 RBS3-1697 RBS3-1698 RBS3-1699 RBS3-1700 RBS3-1701 RBS3-1702
Downlink information common for all radio links	A4, A7, A8, A10	Downlink DPCH info common for all RL Initialise Not Present	Rel-6 R99 and Rel-4 only	RBS3-1703 RBS3-1704 RBS3-1705
- CHOICE DPCH info - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value - Mac-hs reset indicator		TDD 1 Not Present TDD TDD 3.84 Mcps TDD Not Present Not Present	Rel-4	RBS3-1706 RBS3-1707 RBS3-1708 RBS3-1709 RBS3-1710 RBS3-1711 RBS3-1712 RBS3-1713 RBS3-1714 RBS3-1715
Downlink information for each radio link list	A1, A2, A3, A4, A7, A8, A9, A10, A11	1		RBS3-1716
- Downlink information for each radio link		TDD		RBS3-1717
- Choice mode - Primary CCPCH info - Choice mode - CHOICE TDD option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator		TDD 3.84 Mcps TDD Sync Case 2 0 10 FALSE		RBS3-1718 RBS3-1719 RBS3-1720 RBS3-1721 RBS3-1722 RBS3-1723 RBS3-1724
- CHOICE DPCH info		Downlink DPCH info for each RL	Rel-6	RBS3-1725
- CHOICE mode - DL CCTrCH List - TFCS ID - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period		TDD 1 CCTrCh 1 Not Present Not Present		RBS3-1726 RBS3-1727 RBS3-1728 RBS3-1729 RBS3-1730 RBS3-1731 RBS3-1732 RBS3-1733 RBS3-1734 RBS3-1735
		Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set		

Information Element	Condition	Value/remark	Version	Index
- Repetition Length - Downlink DPCH timeslots and codes - Individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration		Reference to clause 6.10 Parameter Set The number of a downlink timeslot that has unassigned codes. TRUE 3.84 Mcps Reference to clause 6.10 Parameter Set Default Set Kcell to lowest possible value given the number of codes defined in clause 6.10 Parameter Set 3.84 Mcps		RBS3-1736 RBS3-1737 RBS3-1738 RBS3-1739 RBS3-1740 RBS3-1741 RBS3-1742 RBS3-1743 RBS3-1744 RBS3-1745
codes - CHOICE TDD option - First timeslot channelisation representation - First channelisation code - Last channelisation code - CHOICE more timeslots		Consecutive codes (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6.10 Parameter Set. (j/SF) where j is the highest numbered code that is being assigned in the slot as specified in clause 6.10 Parameter Set. 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.		RBS3-1746 RBS3-1747 RBS3-1748 RBS3-1749 RBS3-1750 RBS3-1751
- UL CCTrCH TPC List - UL TPC TFCS Identity - TFCS ID - Shared channel indicator - DL CCTrCH List to Remove - SCCPCH information for FACH - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information	A5	1 1 False Not Present Not Present Not Present Not Present Not Present	R99 and Rel-4 only Rel-6 Rel-6 Rel-6	RBS3-1752 RBS3-1753 RBS3-1754 RBS3-1755 RBS3-1756 RBS3-1757 RBS3-1758 RBS3-1759 RBS3-1760 RBS3-1761
Downlink information for each radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - Choice mode - CHOICE TDD option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator - CHOICE DPCH info - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information	A6	TDD TDD 3.84 Mcps TDD Sync Case 2 0 10 FALSE Not present Not Present Not Present Not Present Not present	Rel-6 Rel-6 Rel-6 Rel-6 Rel-6	RBS3-1762 RBS3-1763 RBS3-1764 RBS3-1765 RBS3-1766 RBS3-1767 RBS3-1768 RBS3-1769 RBS3-1770 RBS3-1771 RBS3-1772 RBS3-1773 RBS3-1774 RBS3-1775
Downlink information for each radio link list - Downlink information for each radio link	A12, A13, A14, A15, A16		Rel-7	RBS3-1776 RBS3-1777
- Choice mode - Primary CCPCH info - Choice mode - CHOICE TDD option - CHOICE SyncCase		TDD TDD 3.84 Mcps TDD Sync Case 2		RBS3-1778 RBS3-1779 RBS3-1780 RBS3-1781 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_{E-HICH}		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 Rel-7	RBS3-1807 RBS3-1808 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

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	, 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			RBS1-015
	, A10,	Now	Rel-5	RBS1-016
	A18		Rel-8	RBS1-017
New U-RNTI	A1, A2, A3, A4, A5, A6, A7, A8			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			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 mode		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
- 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 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
- CHOICE Uplink RLC mode		TM RLC		RBS1-064

Information Element	Condition	Value/remark	Version	Index
- 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 RLC size list	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 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 RLC size list	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
- Segmentation indication	FALSE			RBS1-122

Information Element	Condition	Value/remark	Version	Index
- 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 RLC size list	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 RLC size list	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 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
- CHOICE RLC info type	RLC info			RBS1-179

Information Element	Condition	Value/remark	Version	Index
- CHOICE Uplink RLC mode		AM RLC		RBS1-180
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- 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 The first/leftmost bit of the bit string contains the most significant bit of the		RBS1-237

Information Element	Condition	Value/remark	Version	Index
- CN domain identity		RAB identity.		
- NAS Synchronization Indicator		PS domain		RBS1-238
- Re-establishment timer		Not Present		RBS1-239
- RB information to setup		useT315		RBS1-240
- RB identity				RBS1-241
- PDCP info		25		RBS1-242
- Support for lossless SRNS relocation				RBS1-243
- Max PDCP SN window size		FALSE		RBS1-244
- PDCP PDU header		Not present		RBS1-245
- Header compression information		Absent		RBS1-246
- CHOICE RLC info type		Not present		RBS1-247
- CHOICE Uplink RLC mode		RLC info		RBS1-248
- Transmission RLC discard		AM RLC		RBS1-249
- CHOICE SDU discard mode		No Discard		RBS1-250
- MAX_DAT		Transmission		RBS1-251
- Transmission window size		15		RBS1-252
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- Max_RST		500		RBS1-254
- Polling info		4		RBS1-255
- Timer_poll_prohibit		1		RBS1-256
- Timer_poll		100		RBS1-257
- Poll_PDU		100		RBS1-258
- Poll_SDU		Not Present		RBS1-259
- Last transmission PDU poll		1		RBS1-260
- Last retransmission PDU poll		TRUE		RBS1-261
- Poll_Windows		TRUE		RBS1-262
- Poll_Windows		99		RBS1-263
- Timer_poll_periodic		Not Present		RBS1-264
- CHOICE Downlink RLC mode		Not Present		RBS1-265
- CHOICE Downlink RLC PDU Size		AM RLC		RBS1-266
- In-sequence delivery		Reference to clause 6 Parameter Set		RBS1-267
- Receiving window size		TRUE		RBS1-268
- Downlink RLC status info		1		RBS1-269
- Timer_status_prohibit		TRUE		RBS1-270
- Timer_EPC		100		RBS1-271
- Missing PDU indicator		Not Present		RBS1-272
- Timer_STATUS_periodic		TRUE		RBS1-273
- One sided RLC re-establishment		Not Present		RBS1-274
- RB mapping info		Configured		RBS1-275
- Information for each multiplexing option		FALSE		RBS1-276
- RLC logical channel mapping indicator		3 RBMuxOptions		RBS1-277
- Number of uplink RLC logical channels		Not Present		RBS1-278
- Uplink transport channel type		1		RBS1-279
- UL Transport channel identity		DCH		RBS1-280
- Logical channel identity		1		RBS1-281
- CHOICE RLC size list		Not Present		RBS1-282
- MAC logical channel priority		Configured		RBS1-283
- Downlink RLC logical channel info		8		RBS1-284
- Number of downlink RLC logical channels		TRUE		RBS1-285
- Downlink transport channel type		1		RBS1-286
- DL DCH Transport channel identity		DCH		RBS1-287
- DL DSCH Transport channel identity		6		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		Not Present		RBS1-292
- Uplink transport channel type		1		RBS1-293
- UL Transport channel identity		DCH		RBS1-294
- Logical channel identity		1		RBS1-295
- CHOICE RLC size list		Not Present		RBS1-296
- MAC logical channel priority		Configured		RBS1-297
- Downlink RLC logical channel info		8		RBS1-298

Information Element	Condition	Value/remark	Version	Index
- 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 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
- Last retransmission PDU poll		TRUE		RBS1-346
- Poll_Windows		99		RBS1-347
- Timer_poll_periodic		Not Present		RBS1-348
- CHOICE Downlink RLC mode		AM RLC		RBS1-349
- CHOICE Downlink RLC PDU Size		Reference to clause 6 Parameter Set		RBS1-350
- In-sequence delivery		TRUE		RBS1-351
- Receiving window size		768		RBS1-352
- Downlink RLC status info				RBS1-353
- Timer_status_prohibit		100		RBS1-354
- Timer_EPC		Not Present		RBS1-355
- Missing PDU indicator		TRUE		RBS1-356

Information Element	Condition	Value/remark	Version	Index
- Timer_STATUS_periodic		Not Present		RBS1-357
- One sided RLC re-establishment		FALSE		RBS1-358
- RB mapping info				RBS1-359
- Information for each multiplexing option		1 RBMuxOption		RBS1-360
- RLC logical channel mapping indicator		Not present		RBS1-361
- Number of uplink RLC logical channels		1		RBS1-362
- Uplink transport channel type		DCH		RBS1-363
- UL Transport channel identity		1		RBS1-364
- 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
- Number of downlink RLC logical channels		1		RBS1-369
- Downlink transport channel type		HS-DSCH		RBS1-370
- DL DCH Transport channel identity		Not present		RBS1-371
- 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) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.	Rel-7	RBS1-375 RBS1-376 RBS1-377
- RAB info				
- RAB identity				
- CN domain identity		PS domain		RBS1-378
- NAS Synchronization Indicator		Not Present		RBS1-379
- Re-establishment timer		useT315		RBS1-380
- RB information to setup				RBS1-381
- RB identity		25		RBS1-382
- PDCP info				RBS1-383
- Support for lossless SRNS relocation		FALSE		RBS1-384
- Max PDCP SN window size		Not present		RBS1-385
- PDCP PDU header		Absent		RBS1-386
- Header compression information		Not present		RBS1-387
- CHOICE RLC info type		RLC info		RBS1-388
- CHOICE Uplink RLC mode		AM RLC		RBS1-389
- Transmission RLC discard				RBS1-390
- CHOICE SDU discard mode		No Discard		RBS1-391
- MAX_DAT		15		RBS1-392
- Transmission window size		256		RBS1-393
- Timer_RST		500		RBS1-394
- Max_RST		4		RBS1-395
- Polling info				RBS1-396
- Timer_poll_prohibit		100		RBS1-397
- Timer_poll		100		RBS1-398
- Poll_PDU		Not Present		RBS1-399
- Poll_SDU		1		RBS1-400
- Last transmission PDU poll		TRUE		RBS1-401
- Last retransmission PDU poll		TRUE		RBS1-402
- Poll_Windows		99		RBS1-403
- Timer_poll_periodic		Not Present		RBS1-404
- CHOICE Downlink RLC mode		AM RLC		RBS1-405
- CHOICE Downlink RLC PDU Size		Reference to clause 6 Parameter Set		RBS1-406
- In-sequence delivery		TRUE		RBS1-407
- Receiving window size		768		RBS1-408
- Downlink RLC status info				RBS1-409
- Timer_status_prohibit		100		RBS1-410
- Timer_EPC		Not Present		RBS1-411
- Missing PDU indicator		TRUE		RBS1-412
- Timer_STATUS_periodic		Not Present		RBS1-413
- One sided RLC re-establishment		FALSE		RBS1-414
- RB mapping info				RBS1-415
- Information for each multiplexing option		3 RBMuxOptions		RBS1-416
- RLC logical channel mapping indicator		Not Present		RBS1-417

Information Element	Condition	Value/remark	Version	Index
- Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels		1 DCH 1 Not Present Configured 8 1		RBS1-418 RBS1-419 RBS1-420 RBS1-421 RBS1-422 RBS1-423 RBS1-424 RBS1-425
- Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size	MAC-I-FIXED	DCH 6 Not Present Not Present Not Present Not Present 1 E-DCH 7 2 Fixed size	Rel-8	RBS1-426 RBS1-427 RBS1-428 RBS1-429 RBS1-430 RBS1-431 RBS1-432 RBS1-433 RBS1-434 RBS1-435 RBS1-436
- DDI - RLC PDU size list - RLC PDU size - CHOICE RLC PDU size	MAC-I-FLEX	5 1 RLC PDU size 336 bits Flexible size	Rel-8	RBS1-437 RBS1-438 RBS1-439 RBS1-440
- Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - 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 - DL HS-DSCH MAC-d flow identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - 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		Not present See clause 6.11 See clause 6.11 TRUE 8 1 HS-DSCH Not Present Not Present 0 Not Present Not Present 1 RACH Not Present 7 Explicit list Reference to clause 6 Parameter Set 8 1 FACH Not Present Not Present		RBS1-441 RBS1-442 RBS1-443 RBS1-444 RBS1-445 RBS1-446 RBS1-447 RBS1-448 RBS1-449 RBS1-450 RBS1-451 RBS1-452 RBS1-453 RBS1-454 RBS1-455 RBS1-456 RBS1-457 RBS1-458 RBS1-459 RBS1-460 RBS1-461 RBS1-462 RBS1-463 RBS1-464 RBS1-465
- RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info	A12, A13, A14, A15 A19, A20	(high-speed AM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 25	Rel-7 Rel-8	RBS1-466 RBS1-467 RBS1-468 RBS1-469 RBS1-470 RBS1-471 RBS1-472 RBS1-473 RBS1-474 RBS1-475

Information Element	Condition	Value/remark	Version	Index
- Support for lossless SRNS relocation		FALSE		RBS1-476
- Max PDCP SN window size		Not present		RBS1-477
- PDCP PDU header		Absent		RBS1-478
- Header compression information		Not present		RBS1-479
- CHOICE RLC info type		RLC info		RBS1-480
- CHOICE Uplink RLC mode		AM RLC		RBS1-481
- Transmission RLC discard		No Discard		RBS1-482
- CHOICE SDU discard mode				RBS1-483
- MAX_DAT		15		RBS1-484
- Transmission window size		256		RBS1-485
- Timer_RST		500		RBS1-486
- Max_RST		4		RBS1-487
- Polling info				RBS1-488
- Timer_poll_prohibit		100		RBS1-489
- Timer_poll		100		RBS1-490
- Poll_PDU		Not Present		RBS1-491
- Poll_SDU		1		RBS1-492
- Last transmission PDU poll		TRUE		RBS1-493
- Last retransmission PDU poll		TRUE		RBS1-494
- Poll_Windows		99		RBS1-495
- Timer_poll_periodic		No Present		RBS1-496
- CHOICE Downlink RLC mode		AM RLC		RBS1-497
- CHOICE Downlink RLC PDU Size		Reference to clause 6 Parameter Set		RBS1-498
- In-sequence delivery		TRUE		RBS1-499
- Receiving window size		768		RBS1-500
- Downlink RLC status info				RBS1-501
- Timer_status_prohibit		100		RBS1-502
- Timer_EPC		Not Present		RBS1-503
- Missing PDU indicator		TRUE		RBS1-504
- Timer_STATUS_periodic		No Present		RBS1-505
- One sided RLC re-establishment		FALSE		RBS1-506
- RB mapping info				RBS1-507
- Information for each multiplexing option		1 RBMuxOption		RBS1-508
- RLC logical channel mapping indicator		Not Present		RBS1-509
- Number of uplink RLC logical channels		1		RBS1-510
- Uplink transport channel type		E-DCH		RBS1-511
- Logical channel identity		7		RBS1-512
- E-DCH MAC-d flow identity		2		RBS1-513
- CHOICE RLC PDU size	MAC-I-FIXED	Fixed size	Rel-8	RBS1-514
- DDI		5		RBS1-515
- RLC PDU size list		1 RLC PDU size		RBS1-516
- RLC PDU size		336 bits		RBS1-517
- CHOICE RLC PDU size	MAC-I-FLEX	Flexible size	Rel-8	RBS1-518
- Length indicator size		Not present		RBS1-519
- Minimum UL RLC PDU size		See clause 6.11		RBS1-520
- Largest UL RLC PDU size		See clause 6.11		RBS1-521
- Include in scheduling info		TRUE		RBS1-522
- MAC logical channel priority		8		RBS1-523
- Downlink RLC logical channel info				RBS1-524
- Number of downlink RLC logical channels		1		RBS1-525
- Downlink transport channel type		HS-DSCH		RBS1-526
- DL DCH Transport channel identity		Not present		RBS1-527
- DL DSCH Transport channel identity		Not present		RBS1-528
- DL HS-DSCH MAC-d flow identity		0		RBS1-529
- Logical channel identity		Not Present		RBS1-530
- RAB information for setup	A14	(second high-speed AM DTCH for PS domain)	Rel-7	RBS1-531
- RAB info		0000 0110B		RBS1-532
- RAB identity		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS1-533
- CN domain identity		PS domain		RBS1-534
- NAS Synchronization Indicator		Not Present		RBS1-535

Information Element	Condition	Value/remark	Version	Index
- 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		No Discard		RBS1-546
- CHOICE SDU discard mode				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	(Conversational UM DTCH for PS domain) 0000 0110B The first/ leftmost bit of the bit string	Rel-7	RBS1-595 RBS1-596 RBS1-597
- RAB info				
- RAB identity				

Information Element	Condition	Value/remark	Version	Index
- CN domain identity - NAS Synchronization Indicator - Re-establishment timer - 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 Downlink RLC mode - DL UM RLC LI size - DL Reception Window Size - One sided RLC re-establishment - Alternative E-bit interpretation - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size	MAC-I-FIXED	contains the most significant bit of the RAB identity. PS domain Not Present useT314 27 FALSE Not present Absent Not present RLC info UM RLC Not present UM RLC 7 32 FALSE Not present 1 RBMuxOption Not Present 1 E-DCH 9 4 Fixed size	Rel-8	RBS1-598 RBS1-599 RBS1-600 RBS1-601 RBS1-602 RBS1-603 RBS1-604 RBS1-605 RBS1-606 RBS1-607 RBS1-608 RBS1-609 RBS1-610 RBS1-611 RBS1-612 RBS1-613 RBS1-614 RBS1-615 RBS1-616 RBS1-617 RBS1-618 RBS1-619 RBS1-620 RBS1-621 RBS1-622 RBS1-623
- DDI - RLC PDU size list - RLC PDU size - CHOICE RLC PDU size	MAC-I-FLEX	7 12 RLC PDU sizes 96 bits 112 bits 144 bits 160 bits 176 bits 192 bits 208 bits 224 bits 288 bits 296 bits 312 bits 336 bits Flexible size	Rel-8	RBS1-624 RBS1-625 RBS1-626 RBS1-627 RBS1-628 RBS1-629 RBS1-630 RBS1-631 RBS1-632 RBS1-633 RBS1-634 RBS1-635 RBS1-636 RBS1-637 RBS1-638
- Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - 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 - DL HS-DSCH MAC-d flow identity - Logical channel identity		Not present See clause 6.11 See clause 6.11 TRUE 8 1 HS-DSCH Not present Not present 3 Not Present		RBS1-639 RBS1-640 RBS1-641 RBS1-642 RBS1-643 RBS1-644 RBS1-645 RBS1-646 RBS1-647 RBS1-648 RBS1-649 RBS1-650
- RAB information for setup	A16, A21		Rel-7 Rel-8	RBS1-651 RBS1-652
- RAB info		(high-speed AM DTCH for PS domain)		RBS1-653
- RAB identity		0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS1-654
- CN domain identity		PS domain		RBS1-655

Information Element	Condition	Value/remark	Version	Index
- 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 The first/ leftmost bit of the bit string contains the most significant bit of the		RBS1-714

Information Element	Condition	Value/remark	Version	Index
- CN domain identity		RAB identity.		
- NAS Synchronization Indicator		PS domain		RBS1-715
- Re-establishment timer		Not Present		RBS1-716
- RB information to setup		useT315		RBS1-717
- RB identity				RBS1-718
- PDCP info		25		RBS1-719
- Support for lossless SRNS relocation		Absent		RBS1-720
- Max PDCP SN window size		FALSE		RBS1-721
- PDCP PDU header		Not present		RBS1-722
- Header compression information		Absent		RBS1-723
- CHOICE RLC info type		Not present		RBS1-724
- CHOICE Uplink RLC mode		RLC info		RBS1-725
- Transmission RLC discard		AM RLC		RBS1-726
- CHOICE SDU discard mode				RBS1-727
- MAX_DAT		No Discard		RBS1-728
- Transmission window size		15		RBS1-729
- Timer_RST		256		RBS1-730
- Max_RST		500		RBS1-731
- Polling info		4		RBS1-732
- Poll_PDU				RBS1-733
- Poll_SDU		100		RBS1-734
- Last transmission PDU poll		100		RBS1-735
- Last retransmission PDU poll		Not Present		RBS1-736
- Poll_Windows		1		RBS1-737
- Timer_poll_periodic		99		RBS1-738
- CHOICE Downlink RLC mode		Not Present		RBS1-739
- CHOICE Downlink RLC PDU Size		AM RLC		RBS1-740
- Length indicator size		Reference to clause 6 Parameter Set		RBS1-741
		This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible"		RBS1-742
- In-sequence delivery		TRUE		RBS1-743
- Receiving window size		768		RBS1-744
- Downlink RLC status info				RBS1-745
- Timer_status_prohibit		100		RBS1-746
- Timer_EPC		Not Present		RBS1-747
- Missing PDU indicator		TRUE		RBS1-748
- Timer_STATUS_periodic		TRUE		RBS1-749
- One sided RLC re-establishment		Not Present		RBS1-750
- Alternative E-bit interpretation		1		RBS1-751
- Use special value of HE field		Not present		RBS1-752
- RB mapping info		TRUE		RBS1-753
- Information for each multiplexing option		TRUE		RBS1-754
- RLC logical channel mapping indicator		FALSE		RBS1-755
- Number of uplink RLC logical channels		Not Present		RBS1-756
- Uplink transport channel type		1		RBS1-757
- Logical channel identity		E-DCH		RBS1-758
- E-DCH MAC-d flow identity		7		RBS1-759
- E-DCH MAC-d flow identity		2		RBS1-760
- CHOICE RLC PDU size	MAC-I-FIXED	Fixed size	Rel-8	RBS1-761
- DDI		5		RBS1-762
- RLC PDU size list		1 RLC PDU size		RBS1-763
- RLC PDU size		336 bits		RBS1-764
- CHOICE RLC PDU size	MAC-I-FLEX	Flexible size	Rel-8	RBS1-765
- Length indicator size		- 15 bit		RBS1-766
- Minimum UL RLC PDU size		See clause 6.10		RBS1-767
- Largest UL RLC PDU size		See clause 6.10		RBS1-768
- Include in scheduling info		TRUE		RBS1-769
- MAC logical channel priority		8		RBS1-770
- Downlink RLC logical channel info				RBS1-771
- Number of downlink RLC logical channels		1		RBS1-772

Information Element	Condition	Value/remark	Version	Index
- 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 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
- 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 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
- Max PDCP SN window size		Not present		RBS1-829

Information Element	Condition	Value/remark	Version	Index
- 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
- MAC logical channel priority		8		RBS1-889

Information Element	Condition	Value/remark	Version	Index
- 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) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 26 FALSE Not present Absent Not present RLC info UM RLC Not present UM RLC 7 Not present TRUE FALSE 1 RBMuxOption Not Present 1 E-DCH 7 2 Flexible size Not present See clause 6.10 See clause 6.10 TRUE 8 1 HS-DSCH Not present Not present MAC-ehs 2 7	Rel-8	RBS1-898 RBS1-899 RBS1-900 RBS1-901 RBS1-902 RBS1-903 RBS1-904 RBS1-905 RBS1-906 RBS1-907 RBS1-908 RBS1-909 RBS1-910 RBS1-911 RBS1-912 RBS1-913 RBS1-914 RBS1-915 RBS1-916 RBS1-917 RBS1-918 RBS1-919 RBS1-920 RBS1-921 RBS1-922 RBS1-923 RBS1-924 RBS1-925 RBS1-926 RBS1-927 RBS1-928 RBS1-929 RBS1-930 RBS1-931 RBS1-932 RBS1-933 RBS1-934 RBS1-935 RBS1-936 RBS1-937 RBS1-938 RBS1-939
- RAB information for setup	A22	(second high-speed UM DTCH for PS domain) 0000 0110B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 27	Rel-8	RBS1-940 RBS1-941 RBS1-942 RBS1-943 RBS1-944 RBS1-945 RBS1-946 RBS1-947

Information Element	Condition	Value/remark	Version	Index
- 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 Downlink RLC mode - DL UM RLC LI size - DL Reception Window Size - Alternative E-bit interpretation - One sided RLC re-establishment - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - 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 - CHOICE DL MAC header type - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity		FALSE Not present Absent Not present RLC info UM RLC Not present UM RLC 7 Not present TRUE FALSE 1 RBMuxOption Not Present 1 E-DCH 8 3 Flexible size Not present See clause 6.10 See clause 6.10 TRUE 8 1 HS-DSCH Not present Not present MAC-ehs 3 8		RBS1-948 RBS1-949 RBS1-950 RBS1-951 RBS1-952 RBS1-953 RBS1-954 RBS1-955 RBS1-956 RBS1-957 RBS1-958 RBS1-959 RBS1-960 RBS1-961 RBS1-962 RBS1-963 RBS1-964 RBS1-965 RBS1-966 RBS1-967 RBS1-968 RBS1-969 RBS1-970 RBS1-971 RBS1-972 RBS1-973 RBS1-974 RBS1-975 RBS1-976 RBS1-977 RBS1-978 RBS1-979 RBS1-980 RBS1-981
- RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - 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 Downlink RLC mode - DL UM RLC LI size - DL Reception Window Size - Alternative E-bit interpretation - One sided RLC re-establishment - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity	A22	(third high-speed UM DTCH for PS domain) 0000 0111B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 21 FALSE Not present Absent Not present RLC info UM RLC Not present UM RLC 7 Not present TRUE FALSE 1 RBMuxOption Not Present 1 E-DCH 9 4	Rel-8	RBS1-982 RBS1-983 RBS1-984 RBS1-985 RBS1-986 RBS1-987 RBS1-988 RBS1-989 RBS1-990 RBS1-991 RBS1-992 RBS1-993 RBS1-994 RBS1-995 RBS1-996 RBS1-997 RBS1-998 RBS1-999 RBS1-1000 RBS1-1001 RBS1-1002 RBS1-1003 RBS1-1004 RBS1-1005 RBS1-1006 RBS1-1007 RBS1-1008 RBS1-1009

Information Element	Condition	Value/remark	Version	Index
- CHOICE RLC PDU size - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - 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 - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity		Flexible size Not present See clause 6.10 See clause 6.10 TRUE 8 1 HS-DSCH Not present Not present MAC-ehs 4 9		RBS1-1010 RBS1-1011 RBS1-1012 RBS1-1013 RBS1-1014 RBS1-1015 RBS1-1016 RBS1-1017 RBS1-1018 RBS1-1019 RBS1-1020 RBS1-1021 RBS1-1022 RBS1-1023
- RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - 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 Downlink RLC mode - DL UM RLC LI size - DL Reception Window Size - One sided RLC re-establishment - Alternative E-bit interpretation - Use special value of HE field - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - Length indicator size - Minimum UL RLC PDU size - Largest UL RLC PDU size - Include in scheduling info - MAC logical channel priority - 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 - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity	A23	(high-speed UM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 25 FALSE Not present Absent Not present RLC info UM RLC Not Present UM RLC 15 Not present FALSE TRUE Not present 1 RBMuxOption Not present 1 E-DCH 7 2 Flexible size Not present See clause 6.10 See clause 6.10 TRUE 8 1 HS-DSCH Not present Not present MAC-ehs 0 7	Rel-8	RBS1-1024 RBS1-1025 RBS1-1026 RBS1-1027 RBS1-1028 RBS1-1029 RBS1-1030 RBS1-1031 RBS1-1032 RBS1-1033 RBS1-1034 RBS1-1035 RBS1-1036 RBS1-1037 RBS1-1038 RBS1-1039 RBS1-1040 RBS1-1041 RBS1-1042 RBS1-1043 RBS1-1044 RBS1-1045 RBS1-1046 RBS1-1047 RBS1-1048 RBS1-1049 RBS1-1050 RBS1-1051 RBS1-1052 RBS1-1053 RBS1-1054 RBS1-1055 RBS1-1056 RBS1-1057 RBS1-1058 RBS1-1059 RBS1-1060 RBS1-1061 RBS1-1062 RBS1-1063 RBS1-1064 RBS1-1065 RBS1-1066
- RAB information for setup - RAB info - RAB identity	A24	(high-speed AM DTCH for PS domain) 0000 0101B	Rel-8	RBS1-1067 RBS1-1068 RBS1-1069

Information Element	Condition	Value/remark	Version	Index
The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.			RBS1-1070	
- CN domain identity		PS domain	RBS1-1071	
- NAS Synchronization Indicator		Not Present	RBS1-1072	
- Re-establishment timer		useT315	RBS1-1073	
- RB information to setup			RBS1-1074	
- RB identity		25	RBS1-1075	
- PDCP info			RBS1-1076	
- Support for lossless SRNS relocation		FALSE	RBS1-1077	
- Max PDCP SN window size		Not present	RBS1-1078	
- PDCP PDU header		Absent	RBS1-1079	
- Header compression information		Not present	RBS1-1080	
- CHOICE RLC info type		RLC info	RBS1-1081	
- CHOICE Uplink RLC mode		AM RLC	RBS1-1082	
- Transmission RLC discard			RBS1-1083	
- CHOICE SDU discard mode		No Discard	RBS1-1084	
- MAX_DAT		15	RBS1-1085	
- Transmission window size		128	RBS1-1086	
- Timer_RST		500	RBS1-1087	
- Max_RST		4	RBS1-1088	
- Polling info			RBS1-1089	
- Timer_poll_prohibit		100	RBS1-1090	
- Timer_poll		100	RBS1-1091	
- Poll_PDU		Not Present	RBS1-1092	
- Poll_SDU		1	RBS1-1093	
- Last transmission PDU poll		TRUE	RBS1-1094	
- Last retransmission PDU poll		TRUE	RBS1-1095	
- Poll_Windows		99	RBS1-1096	
- Timer_poll_periodic		Not Present	RBS1-1097	
- CHOICE Downlink RLC mode		AM RLC	RBS1-1098	
- CHOICE Downlink RLC PDU Size		Reference to clause 6 Parameter Set	RBS1-1099	
- In-sequence delivery		TRUE	RBS1-1100	
- Receiving window size		768	RBS1-1101	
- Downlink RLC status info			RBS1-1102	
- Timer_status_prohibit		100	RBS1-1103	
- Timer_EPC		Not Present	RBS1-1104	
- Missing PDU indicator		TRUE	RBS1-1105	
- Timer_STATUS_periodic		Not Present	RBS1-1106	
- One sided RLC re-establishment		FALSE	RBS1-1107	
- Alternative E-bit interpretation		Not present	RBS1-1108	
- Use special value of HE field		TRUE	RBS1-1109	
- RB mapping info			RBS1-1110	
- Information for each multiplexing option		1 RBMuxOption	RBS1-1111	
- RLC logical channel mapping indicator		Not present	RBS1-1112	
- Number of uplink RLC logical channels		1	RBS1-1113	
- Uplink transport channel type		E-DCH	RBS1-1114	
- Logical channel identity		7	RBS1-1115	
- E-DCH MAC-d flow identity		2	RBS1-1116	
- CHOICE RLC PDU size		Flexible size	RBS1-1117	
- Length indicator size		15 bit	RBS1-1118	
- Minimum UL RLC PDU size		See clause 6.10	RBS1-1119	
- Largest UL RLC PDU size		See clause 6.10	RBS1-1120	
- Include in scheduling info		TRUE	RBS1-1121	
- MAC logical channel priority		8	RBS1-1122	
- Downlink RLC logical channel info			RBS1-1123	
- Number of downlink RLC logical channels		1	RBS1-1124	
- Downlink transport channel type		HS-DSCH	RBS1-1125	
- DL DCH Transport channel identity		Not present	RBS1-1126	
- DL DSCH Transport channel identity		Not present	RBS1-1127	
- CHOICE DL MAC header type		MAC-ehs	RBS1-1128	
- DL HS-DSCH MAC-ehs Queue Id		2	RBS1-1129	
- Logical channel identity		7	RBS1-1130	
RB information to reconfigure list	A1, A2, A3, A4, A5, A6, A7, A8	Not Present	RBS1-1131	
	, A9, A10		Rel-5	RBS1-1132

Information Element	Condition	Value/remark	Version	Index
	, 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	A12, A14, A22	1 (UM DCCCH for RRC) 1 RBMuxOption Not Present 1 E-DCH 1 1 1 RLC PDU size 144 bits FALSE 1 1 DCH 10 Not Present 1 2 (AM DCCCH for RRC) 1 RBMuxOption Not Present 1 E-DCH 2 1 2 1 RLC PDU size 144 bits FALSE 2 1 DCH 10 Not Present 2 3 (AM DCCCH for NAS High Priority) 1 RBMuxOption Not Present 1 E-DCH 3 1 3 1 RLC PDU size 144 bits FALSE	Rel-7	RBS1-1139
<ul style="list-style-type: none"> - RB identity - RB mapping info <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 				
<ul style="list-style-type: none"> - RB identity - RB mapping info <ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 				

Information Element	Condition	Value/remark	Version	Index
- MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity		3 1 DCH 10 Not Present 3 4 (AM DCCCH for NAS Low Priority) 1 RBMuxOption Not Present 1 E-DCH 4 1 1 4 1 RLC PDU size 144 bits FALSE 4 1 DCH 10 Not Present 4		RBS1-1190 RBS1-1191 RBS1-1192 RBS1-1193 RBS1-1194 RBS1-1195 RBS1-1196 RBS1-1197 RBS1-1198 RBS1-1199 RBS1-1200 RBS1-1201 RBS1-1202 RBS1-1203 RBS1-1204 RBS1-1205 RBS1-1206 RBS1-1207 RBS1-1208 RBS1-1209 RBS1-1210 RBS1-1211 RBS1-1212 RBS1-1213 RBS1-1214 RBS1-1215
RB information to be affected	A13, A15 A19, A20	1 (UM DCCCH for RRC) 1 RBMuxOption Not Present 1 E-DCH 1 1 1 1 RLC PDU size 144 bits FALSE 1 1 HS-DSCH Not present Not present 1 1 2 (AM DCCCH for RRC) 1 RBMuxOption Not Present 1 E-DCH 2 1 2 1 RLC PDU size 144 bits FALSE 2 1 HS-DSCH Not Present Not Present 1	Rel-7 Rel-8	RBS1-1216 RBS1-1217 RBS1-1218 RBS1-1219 RBS1-1220 RBS1-1221 RBS1-1222 RBS1-1223 RBS1-1224 RBS1-1225 RBS1-1226 RBS1-1227 RBS1-1228 RBS1-1229 RBS1-1230 RBS1-1231 RBS1-1232 RBS1-1233 RBS1-1234 RBS1-1235 RBS1-1236 RBS1-1237 RBS1-1238 RBS1-1239 RBS1-1240 RBS1-1241 RBS1-1242 RBS1-1243 RBS1-1244 RBS1-1245 RBS1-1246 RBS1-1247 RBS1-1248 RBS1-1249 RBS1-1250 RBS1-1251 RBS1-1252 RBS1-1253 RBS1-1254 RBS1-1255 RBS1-1256

Information Element	Condition	Value/remark	Version	Index
- Logical channel identity		2		RBS1-1257
- RB identity		3 (AM DCCH for NAS High Priority)		RBS1-1258
- RB mapping info		1 RBMuxOption Not Present		RBS1-1259
- Information for each multiplexing option		1		RBS1-1260
- RLC logical channel mapping indicator		E-DCH		RBS1-1261
- Number of uplink RLC logical channels		3		RBS1-1262
- Uplink transport channel type		1		RBS1-1263
- Logical channel identity		3		RBS1-1264
- E-DCH MAC-d flow identity		1		RBS1-1265
- DDI		3		RBS1-1266
- RLC PDU size list		1 RLC PDU size		RBS1-1267
- RLC PDU size		144 bits		RBS1-1268
- Include in scheduling info		FALSE		RBS1-1269
- MAC logical channel priority		3		RBS1-1270
- Downlink RLC logical channel info		1		RBS1-1271
- Number of RLC logical channels		HS-DSCH		RBS1-1272
- Downlink transport channel type		Not Present		RBS1-1273
- DL DCH Transport channel identity		Not Present		RBS1-1274
- DL DSCH Transport channel identity		Not Present		RBS1-1275
- DL HS-DSCH MAC-d flow identity		1		RBS1-1276
- Logical channel identity		3		RBS1-1277
- RB identity		4 (AM DCCH for NAS Low Priority)		RBS1-1278
- RB mapping info		1 RBMuxOption Not Present		RBS1-1279
- Information for each multiplexing option		1		RBS1-1280
- RLC logical channel mapping indicator		E-DCH		RBS1-1281
- Number of uplink RLC logical channels		4		RBS1-1282
- Uplink transport channel type		1		RBS1-1283
- Logical channel identity		4		RBS1-1284
- E-DCH MAC-d flow identity		1		RBS1-1285
- DDI		4		RBS1-1286
- RLC PDU size list		1 RLC PDU size		RBS1-1287
- RLC PDU size		144 bits		RBS1-1288
- Include in scheduling info		FALSE		RBS1-1289
- MAC logical channel priority		4		RBS1-1290
- Downlink RLC logical channel info		1		RBS1-1291
- Number of RLC logical channels		HS-DSCH		RBS1-1292
- Downlink transport channel type		Not Present		RBS1-1293
- DL DCH Transport channel identity		Not Present		RBS1-1294
- DL DSCH Transport channel identity		Not Present		RBS1-1295
- DL HS-DSCH MAC-d flow identity		1		RBS1-1296
- Logical channel identity		4		RBS1-1297
RB information to be affected	A16a	1 (UM DCCH for RRC) 1 RBMuxOption Not Present 1 E-DCH 1 1 Fixed size 1 1 RLC PDU size 144 bits FALSE 1 1 HS-DSCH Not present Not present MAC-ehs 1 1 2 (AM DCCH for RRC)	Rel-7 Rel-8	RBS1-1298 RBS1-1299 RBS1-1300 RBS1-1301 RBS1-1302 RBS1-1303 RBS1-1304 RBS1-1305 RBS1-1306 RBS1-1307 RBS1-1308 RBS1-1309 RBS1-1310 RBS1-1311 RBS1-1312 RBS1-1313 RBS1-1314 RBS1-1315 RBS1-1316 RBS1-1317 RBS1-1318 RBS1-1319 RBS1-1320 RBS1-1321 RBS1-1322 RBS1-1323
- RB identity		1 RBMuxOption		
- RB mapping info				
- Information for each multiplexing option				

Information Element	Condition	Value/remark	Version	Index
- RLC logical channel mapping indicator		Not Present		RBS1-1324
- Number of uplink RLC logical channels		1		RBS1-1325
- Uplink transport channel type		E-DCH		RBS1-1326
- Logical channel identity		2		RBS1-1327
- E-DCH MAC-d flow identity		1		RBS1-1328
- CHOICE RLC PDU size		Fixed size	Rel-8	RBS1-1329
- DDI		2		RBS1-1330
- RLC PDU size list		1 RLC PDU size		RBS1-1331
- RLC PDU size		144 bits		RBS1-1332
- Include in scheduling info		FALSE		RBS1-1333
- MAC logical channel priority		2		RBS1-1334
- Downlink RLC logical channel info		1		RBS1-1335
- Number of RLC logical channels		HS-DSCH		RBS1-1337
- Downlink transport channel type		Not Present		RBS1-1338
- DL DCH Transport channel identity		Not Present		RBS1-1339
- DL DSCH Transport channel identity		MAC-ehs		RBS1-1340
- CHOICE <i>DL MAC header type</i>		1		RBS1-1341
- DL HS-DSCH MAC-ehs Queue Id		2		RBS1-1342
- Logical channel identity		3 (AM DCCH for NAS High Priority)		RBS1-1343
- RB identity		1 RBMuxOption		RBS1-1344
- RB mapping info		Not Present		RBS1-1345
- Information for each multiplexing option		1		RBS1-1346
- RLC logical channel mapping indicator		E-DCH		RBS1-1347
- Number of uplink RLC logical channels		3		RBS1-1348
- Uplink transport channel type		1		RBS1-1349
- Logical channel identity		1		RBS1-1350
- E-DCH MAC-d flow identity		Fixed size	Rel-8	RBS1-1351
- CHOICE RLC PDU size		3		RBS1-1352
- DDI		1 RLC PDU size		RBS1-1353
- RLC PDU size list		144 bits		RBS1-1354
- RLC PDU size		FALSE		RBS1-1355
- Include in scheduling info		3		RBS1-1356
- MAC logical channel priority		1		RBS1-1357
- Downlink RLC logical channel info		HS-DSCH		RBS1-1358
- Number of RLC logical channels		Not Present		RBS1-1359
- Downlink transport channel type		Not Present		RBS1-1360
- DL DCH Transport channel identity		MAC-ehs		RBS1-1361
- DL DSCH Transport channel identity		1		RBS1-1362
- CHOICE <i>DL MAC header type</i>		3		RBS1-1363
- DL HS-DSCH MAC-ehs Queue Id		4 (AM DCCH for NAS Low Priority)		RBS1-1364
- Logical channel identity		1 RBMuxOption		RBS1-1365
- RB identity		Not Present		RBS1-1366
- RB mapping info		1		RBS1-1367
- Information for each multiplexing option		E-DCH		RBS1-1368
- RLC logical channel mapping indicator		4		RBS1-1369
- Number of uplink RLC logical channels		1		RBS1-1370
- Uplink transport channel type		1		RBS1-1371
- Logical channel identity		1		RBS1-1372
- E-DCH MAC-d flow identity		Fixed size	Rel-8	RBS1-1373
- CHOICE RLC PDU size		4		RBS1-1374
- DDI		1 RLC PDU size		RBS1-1375
- RLC PDU size list		144 bits		RBS1-1376
- RLC PDU size		FALSE		RBS1-1377
- Include in scheduling info		4		RBS1-1378
- MAC logical channel priority		1		RBS1-1379
- Downlink RLC logical channel info		HS-DSCH		RBS1-1380
- Number of RLC logical channels		Not Present		RBS1-1381
- Downlink transport channel type		Not Present		RBS1-1382
- DL DCH Transport channel identity		MAC-ehs		RBS1-1383
- DL DSCH Transport channel identity		1		RBS1-1384
- CHOICE <i>DL MAC header type</i>		4		RBS1-1385
- DL HS-DSCH MAC-ehs Queue Id		1 (UM DCCH for RRC)	Rel-8	RBS1-1386
- Logical channel identity		1 RBMuxOption		RBS1-1387
RB information to be affected	A23			RBS1-1388
- RB identity				RBS1-1389
- RB mapping info				RBS1-1390
- Information for each multiplexing option				

Information Element	Condition	Value/remark	Version	Index
- 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		1		RBS1-1402
- Number of RLC logical channels		HS-DSCH		RBS1-1403
- Downlink transport channel type		Not present		RBS1-1404
- DL DCH Transport channel identity		Not present		RBS1-1405
- DL DSCH Transport channel identity		MAC-ehs		RBS1-1406
- CHOICE <i>DL MAC header type</i>		1		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		1 RBMuxOption		RBS1-1411
- Information for each multiplexing option		Not Present		RBS1-1412
- RLC logical channel mapping indicator		1		RBS1-1413
- Number of uplink RLC logical channels		E-DCH		RBS1-1414
- Uplink transport channel type		2		RBS1-1415
- Logical channel identity		1		RBS1-1416
- E-DCH MAC-d flow identity		Fixed size		RBS1-1417
- CHOICE RLC PDU size		Not Present		RBS1-1418
- DDI		1 RLC PDU size		RBS1-1419
- RLC PDU size list		144 bits		RBS1-1420
- RLC PDU size		FALSE		RBS1-1421
- Include in scheduling info		2		RBS1-1422
- MAC logical channel priority		1		RBS1-1423
- Downlink RLC logical channel info		HS-DSCH		RBS1-1424
- Number of RLC logical channels		Not Present		RBS1-1425
- Downlink transport channel type		Not Present		RBS1-1426
- DL DCH Transport channel identity		Not Present		RBS1-1427
- DL DSCH Transport channel identity		MAC-ehs		RBS1-1428
- CHOICE <i>DL MAC header type</i>		1		RBS1-1429
- DL HS-DSCH MAC-ehs Queue Id		2		RBS1-1430
- Logical channel identity		3 (AM DCCH for NAS High Priority)		RBS1-1431
- RB identity		3 (AM DCCH for NAS High Priority)		RBS1-1432
- RB mapping info		1 RBMuxOption		RBS1-1433
- Information for each multiplexing option		Not Present		RBS1-1434
- RLC logical channel mapping indicator		1		RBS1-1435
- Number of uplink RLC logical channels		E-DCH		RBS1-1436
- Uplink transport channel type		3		RBS1-1437
- Logical channel identity		1		RBS1-1438
- E-DCH MAC-d flow identity		Fixed size		RBS1-1439
- CHOICE RLC PDU size		Not Present		RBS1-1440
- DDI		1 RLC PDU size		RBS1-1441
- RLC PDU size list		144 bits		RBS1-1442
- RLC PDU size		FALSE		RBS1-1443
- Include in scheduling info		3		RBS1-1444
- MAC logical channel priority		1		RBS1-1445
- Downlink RLC logical channel info		HS-DSCH		RBS1-1446
- Number of RLC logical channels		Not Present		RBS1-1447
- Downlink transport channel type		Not Present		RBS1-1448
- DL DCH Transport channel identity		Not Present		RBS1-1449
- DL DSCH Transport channel identity		MAC-ehs		RBS1-1450
- CHOICE <i>DL MAC header type</i>		1		RBS1-1451
- DL HS-DSCH MAC-ehs Queue Id		3		RBS1-1452
- Logical channel identity		4 (AM DCCH for NAS Low Priority)		RBS1-1453
- RB identity		4 (AM DCCH for NAS Low Priority)		RBS1-1454
- RB mapping info		1 RBMuxOption		RBS1-1455
- Information for each multiplexing option		Not Present		RBS1-1456
- RLC logical channel mapping indicator				RBS1-1457

Information Element	Condition	Value/remark	Version	Index
- Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity		1 E-DCH 4 1 Fixed size Not Present 1 RLC PDU size 144 bits FALSE 4 1 HS-DSCH Not Present Not Present MAC-ehs 1 4		RBS1-1458 RBS1-1459 RBS1-1460 RBS1-1461 RBS1-1462 RBS1-1463 RBS1-1464 RBS1-1465 RBS1-1466 RBS1-1467 RBS1-1468 RBS1-1469 RBS1-1470 RBS1-1471 RBS1-1472 RBS1-1473 RBS1-1474 RBS1-1475
RB information to be affected - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity	A24	1 (UM DCCH for RRC) 1 RBMuxOption Not Present 1 E-DCH 1 3 Fixed size 0 (Not applicable for MAC-i/is) 1 RLC PDU size 144 bits FALSE 1 1 HS-DSCH Not present Not present MAC-ehs 3 1 2 (AM DCCH for RRC) 1 RBMuxOption Not Present 1 E-DCH 2 3 Fixed size 0 (Not applicable for MAC-i/is) 1 RLC PDU size 144 bits FALSE 2 1 HS-DSCH Not Present Not Present MAC-ehs 3 2 3 (AM DCCH for NAS High Priority) 1 RBMuxOption Not Present	Rel-8	RBS1-1476 RBS1-1477 RBS1-1478 RBS1-1479 RBS1-1480 RBS1-1481 RBS1-1482 RBS1-1483 RBS1-1484 RBS1-1485 RBS1-1486 RBS1-1487 RBS1-1488 RBS1-1489 RBS1-1490 RBS1-1491 RBS1-1492 RBS1-1493 RBS1-1494 RBS1-1495 RBS1-1496 RBS1-1497 RBS1-1498 RBS1-1499 RBS1-1500 RBS1-1501 RBS1-1502 RBS1-1503 RBS1-1504 RBS1-1505 RBS1-1506 RBS1-1507 RBS1-1508 RBS1-1509 RBS1-1510 RBS1-1511 RBS1-1512 RBS1-1513 RBS1-1514 RBS1-1515 RBS1-1516 RBS1-1517 RBS1-1518 RBS1-1519 RBS1-1520 RBS1-1521 RBS1-1522 RBS1-1523 RBS1-1524

Information Element	Condition	Value/remark	Version	Index
- Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE <i>DL MAC header type</i> - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity		1 E-DCH 3 3 Fixed size 0 (Not applicable for MAC-i/is) 1 RLC PDU size 144 bits FALSE 3 1 HS-DSCH Not Present Not Present MAC-ehs 3 3 4 (AM DCCH for NAS Low Priority) 1 RBMuxOption Not Present 1 E-DCH 4 3 Fixed size 4 1 RLC PDU size 144 bits FALSE 4 1 HS-DSCH Not Present Not Present MAC-ehs 3 4	Rel-8	RBS1-1525 RBS1-1526 RBS1-1527 RBS1-1528 RBS1-1529 RBS1-1530 RBS1-1531 RBS1-1532 RBS1-1533 RBS1-1534 RBS1-1535 RBS1-1536 RBS1-1537 RBS1-1538 RBS1-1539 RBS1-1540 RBS1-1541 RBS1-1542 RBS1-1543 RBS1-1544 RBS1-1545 RBS1-1546 RBS1-1547 RBS1-1548 RBS1-1549 RBS1-1550 RBS1-1551 RBS1-1552 RBS1-1553 RBS1-1554 RBS1-1555 RBS1-1556 RBS1-1557 RBS1-1558 RBS1-1559 RBS1-1560 RBS1-1561 RBS1-1562 RBS1-1563 RBS1-1564
Downlink counter synchronization info	A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 , A11, A12, A13, A14, A15, A16, A16a, A17, A18, A19, A20, A21, A22, A23, A24	Not Present		RBS1-1565
PDCP ROHC target mode	A9, A10 , A11, A12, A13, A14, A15, A16, A16a, A17, A18, A19, A20, A21, A22, A23, A24	Not Present	Rel-5 Rel-7 Rel-8	RBS1-1566 RBS1-1567 RBS1-1568
UL Transport channel information common for all transport channels	A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 , A16, A17		Rel-5 Rel-7	RBS1-1572 RBS1-1573 RBS1-1574

Information Element	Condition	Value/remark	Version	Index
	, 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 β_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 ((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 ((UL DCH RAB, DCCH)=(TF0, TF1))		RBS1-1619
- CHOICE Gain Factors		Signalled Gain Factors		RBS1-1620
- CHOICE mode		TDD		RBS1-1621
- Gain factor β_d		15		RBS1-1622
- Reference TFC ID		0 Integer(0.. 3)		RBS1-1623
- CHOICE mode		TDD		RBS1-1624

Information Element	Condition	Value/remark	Version	Index
- 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 A18, A19, A20, A22, A23, A24	Not Present	Rel-7 Rel-8	RBS1-1628 RBS1-1629
Deleted TrCH information list	A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 , A11 , A16, A17, A18, A19, A20, A21, A24	Not Present		RBS1-1630
			Rel-5	RBS1-1631
			Rel-7	RBS1-1632
			Rel-8	RBS1-1633
Deleted TrCH information list	A12, A13, A14, A15, A16a , A22, A23		Rel-7 Rel-8	RBS1-1634 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 , A9, A10 , A16, A17 , A21	1 DCH added, 1 DCH reconfigured		RBS1-1638
			Rel-5	RBS1-1639
			Rel-7	RBS1-1640
			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 Set		RBS1-1667

Information Element	Condition	Value/remark	Version	Index
- 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
- TFS				RBS1-1711

Information Element	Condition	Value/remark	Version	Index
- 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 mode		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
- CHOICE transmission grant type		Scheduled grant info		RBS1-1755

Information Element	Condition	Value/remark	Version	Index
- 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 , A23	1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow	Rel-7	RBS1-1788
			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 mode		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
- E-DCH MAC-d flow maximum number of	3			RBS1-1800

Information Element	Condition	Value/remark	Version	Index
retransmissions				
- 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 mode		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, MAC-I-FLEX	MAC-i/is	Rel-8	RBS1-1816
- CHOICE mode		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 mode		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-	MAC-i/is	Rel-8	RBS1-1846

Information Element	Condition	Value/remark	Version	Index
- CHOICE mode	FLEX	TDD		RBS1-1847
- HARQ info for E-DCH				RBS1-1848
- HARQ RV Configuration		rvttable		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 mode		TDD		RBS1-1869
- HARQ info for E-DCH				RBS1-1870
- HARQ RV Configuration		rvttable		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 mode		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 mode		TDD (no data)		RBS1-1892
Added or Reconfigured UL TrCH information	A19, A20	1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d	Rel-8	RBS1-1893

Information Element	Condition	Value/remark	Version	Index
- Uplink transport channel type		flow		
- CHOICE UL parameters		E-DCH		RBS1-1894
- UL MAC header type		E-DCH		RBS1-1895
- UL MAC header type		Not present		RBS1-1896
- UL MAC header type	MAC-I-FIXED, MAC-I-FLEX	MAC-i/is		RBS1-1897
- CHOICE mode		TDD		RBS1-1898
- HARQ info for E-DCH				RBS1-1899
- HARQ RV Configuration		rvtable		RBS1-1900
- Added or reconfigured E-DCH MAC-d		(for DCCH)		RBS1-1901
flow				
- 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 mode		TDD(NULL)		RBS1-1908
- Added or reconfigured E-DCH MAC-d		(for DTCH)		RBS1-1909
flow				
- 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 E-DCH E-DCH Not present MAC-i/is TDD rvtable (for DCCH)	Rel-8 Rel-7	RBS1-1916 RBS1-1917 RBS1-1918 RBS1-1919 RBS1-1920 RBS1-1921 RBS1-1922 RBS1-1923 RBS1-1924 RBS1-1925 RBS1-1926 RBS1-1927 RBS1-1928 RBS1-1929 RBS1-1930 RBS1-1931 RBS1-1932 RBS1-1933 RBS1-1934 RBS1-1935 RBS1-1936 RBS1-1937 RBS1-1938 RBS1-1939 RBS1-1940 RBS1-1941 RBS1-1942
flow		1 0 7 Not Present Scheduled grant info (for first DTCH)		
flow		2 0 7 Not Present Scheduled grant info (for second DTCH)		
flow		3 0 7 Not Present Scheduled grant info (for third DTCH)		

Information Element	Condition	Value/remark	Version	Index
- E-DCH MAC-d flow identity		4		RBS1-1943
- E-DCH MAC-d flow power offset		0		RBS1-1944
- E-DCH MAC-d flow maximum number of retransmissions		7		RBS1-1945
- E-DCH MAC-d flow multiplexing list		Not Present		RBS1-1946
- CHOICE transmission grant type		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 E-DCH E-DCH MAC-i/is table (for DCCH) 2 0 7	Rel-8	RBS1-1948 RBS1-1949 RBS1-1950 RBS1-1951 RBS1-1952 RBS1-1953 RBS1-1954 RBS1-1955 RBS1-1956 RBS1-1957 RBS1-1958 RBS1-1959 RBS1-1960 RBS1-1961 RBS1-1962 RBS1-1963 RBS1-1964 RBS1-1965
- Uplink transport channel type	MAC-I-FIXED, MAC-I-FLEX	E-DCH		
- CHOICE UL parameters		E-DCH		
- UL MAC header type		MAC-i/is		
- HARQ info for E-DCH	flow	table (for DCCH)		
- HARQ RV Configuration		2		RBS1-1955
- Added or reconfigured E-DCH MAC-d flow	flow	0		RBS1-1956
- E-DCH MAC-d flow identity		7		RBS1-1957
- E-DCH MAC-d flow power offset	flow	Not Present		RBS1-1958
- E-DCH MAC-d flow maximum number of retransmissions		Scheduled grant info (for DTCH)		RBS1-1959
- E-DCH MAC-d flow multiplexing list	flow	3		RBS1-1960
- CHOICE transmission grant type		0		RBS1-1961
- Added or reconfigured E-DCH MAC-d flow		7		RBS1-1962
- E-DCH MAC-d flow identity	retransmissions	Not Present		RBS1-1963
- E-DCH MAC-d flow power offset		Scheduled grant info		RBS1-1964
- E-DCH MAC-d flow maximum number of retransmissions		Not Present		RBS1-1965
- E-DCH MAC-d flow multiplexing list		Scheduled grant info		
- CHOICE transmission grant type				
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
- TFCS complete reconfiguration information				RBS1-1992

Information Element	Condition	Value/remark	Version	Index
- 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 ((DL DCH RAB, DCCH)=(TF0, TF0))		RBS1-2012
- Power offset information		Not Present		RBS1-2013
- CTFC		1 ((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 , A18, A19, A20, A23, A24	Not Present	Rel-7 Rel-8	RBS1-2016 RBS1-2017
Deleted TrCH information list	A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10 , A11, A12, A16, A17, A18, A19, A20, A21, A22, A24	Not Present		RBS1-2018 Rel-5 Rel-7 Rel-8
Deleted DL TrCH information	A13, A15, A16a , A23		Rel-7 Rel-8	RBS1-2022 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
- Uplink transport channel type		DCH		RBS1-2038
- UL TrCH identity		1		RBS1-2039

Information Element	Condition	Value/remark	Version	Index
- 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
- Type of channel coding		Reference to clause 6.11 Parameter Set		RBS1-2090

Information Element	Condition	Value/remark	Version	Index
- 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
- DL Transport channel identity		10		RBS1-2135
- CHOICE DL parameters		Same as UL		RBS1-2136

Information Element	Condition	Value/remark	Version	Index
- 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 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 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-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 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 Set	RBS1-2168	
- Semi-static Transport Format information			RBS1-2169	
- Transmission time interval		Reference to clause 6.11 Parameter Set	RBS1-2170	
- Type of channel coding		Reference to clause 6.11 Parameter Set	RBS1-2171	
- Coding Rate		Reference to clause 6.11 Parameter Set	RBS1-2172	
- Rate matching attribute		Reference to clause 6.11 Parameter Set	RBS1-2173	
- CRC size		Reference to clause 6.11 Parameter 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 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	
- MAC-hs window size	16		RBS1-2188	
- MAC-d PDU size Info			RBS1-2189	

Information Element	Condition	Value/remark	Version	Index
- 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
- HARQ Info				RBS1-2242
- Number of Processes		Reference to clause 6.11.5.4.6		RBS1-2243

Information Element	Condition	Value/remark	Version	Index
- CHOICE Memory Partitioning		Parameter Set		
- Added or reconfigured MAC-d flow		Implicit		RBS1-2244
- MAC-hs queue to add or reconfigure list		(two queue)		RBS1-2245
- MAC-hs queue Id		0 (for first DTCH)		RBS1-2246
- 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 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 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
- MAC-d PDU size index		5		RBS1-2302
- MAC-d PDU size		296		RBS1-2303

Information Element	Condition	Value/remark	Version	Index
- 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 Parameter Set		RBS1-2322
- CHOICE Memory Partitioning		Implicit		RBS1-2323
- CHOICE DL MAC header type		MAC-ehs		RBS1-2324
- Added or reconfigured MAC-ehs				RBS1-2325
reordering queue	- MAC-ehs queue to add or reconfigure 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 Parameter Set		RBS1-2337
- CHOICE Memory Partitioning		Implicit		RBS1-2338
- CHOICE DL MAC header type		MAC-ehs		RBS1-2339
- Added or reconfigured MAC-ehs				RBS1-2340
reordering queue	- MAC-hs queue to add or reconfigure 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 Set		RBS1-2355
- CHOICE Memory Partitioning		Implicit		RBS1-2356
- CHOICE DL MAC header type		MAC-ehs		RBS1-2357

Information Element	Condition	Value/remark	Version	Index
- 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 Memory Partitioning		Implicit		RBS1-2392
- CHOICE DL MAC header type		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
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

Information Element	Condition	Value/remark	Version	Index
- 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 Parameter Set		RBS1-2412
- CHOICE Memory Partitioning		Implicit		RBS1-2413
- CHOICE DL MAC header type		MAC-ehs		RBS1-2414
- Added or reconfigured MAC-ehs reordering queue				RBS1-2415
- MAC-ehs queue to add or reconfigure 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 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 Parameter Set		RBS1-2429
- CHOICE Memory Partitioning		Implicit		RBS1-2430
- CHOICE DL MAC header type		MAC-ehs		RBS1-2431
- Added or reconfigured MAC-ehs reordering queue				RBS1-2432
- MAC-ehs queue to add or reconfigure 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-ehs 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, A4, A5, A7, A8 , A9, A10 , A11, A12, A13, A14, A15, A16, A16a, A17, A18, A19, A20, A21, A22, A23, A24			RBS1-2442
- Choice mode		TDD		RBS1-2446
- UARFCN (Nt)		Reference to clause 5.1 Test frequencies		RBS1-2447
Frequency info	A6	Not Present		RBS1-2448
Control Channel DRX information	, A19		Rel-8	RBS1-2449
- CHOICE Control Channel DRX operation		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

Information Element	Condition	Value/remark	Version	Index
- 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, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A16a, A17, A19, A22, A23, A24	Not Present	Rel-8	RBS1-2458
SPS Information	, A20		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, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, 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
- MIMO SF Mode for HS-PDSCH dual stream		SF1,		RBS1-2491
- HS-SICH Reference Signal Info		Not Present		RBS1-2492
Maximum allowed UL TX power	A1, A2, A3, A4, A7, A8 , A9, A10 , A11, A12, A13, A14, A15, A16, A16a, A17, A18, A19, A20, A21,	33dBm		RBS1-2493
			Rel-5	RBS1-2494
			Rel-7	RBS1-2495
			Rel-8	RBS1-2496

Information Element	Condition	Value/remark	Version	Index
	A22, A23, A24			
Maximum allowed UL TX power	A5, A6	Not Present		RBS1-2497
CHOICE channel requirement	A5, A6	Not Present		RBS1-2498
CHOICE channel requirement	A1, A2, A3, A4, A7, A8 , A9, A10 , A16, A17 , A21	Uplink DPCH info		RBS1-2499
- Uplink DPCH power control info			Rel-5	RBS1-2500
- CHOICE mode		TDD	Rel-7	RBS1-2501
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2505
- PRXPDPCHdes		Integer (-120...-58 by step of 1)		RBS1-2506
- CHOICE UL OL PC info				RBS1-2507
- Broadcast UL OL PC info		Null		RBS1-2508
- Uplink Timing Advance Control		Not Present		RBS1-2509
- UL CCTrCH List				RBS1-2510
- TFCS ID		1		RBS1-2511
- UL Target SIR		Real (-11 .. 20 by step of 0.5 dB) Reference to clause 6 Parameter set.		RBS1-2512
- Time info				RBS1-2513
- Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256		RBS1-2514
- Duration		Infinite		RBS1-2515
- Common timeslot info				RBS1-2516
- 2 nd interleaving mode		Default value is "Frame"		RBS1-2517
- TFCI coding		Reference to clause 6 Parameter set		RBS1-2518
- Puncturing limit		Reference to clause 6 Parameter set		RBS1-2519
- Repetition period		1		RBS1-2520
- Repetition length				RBS1-2521
- Uplink DPCH timeslots and code				RBS1-2522
- Dynamic SF usage		FALSE		RBS1-2523
- First individual timeslot info				RBS1-2524
- Timeslot number				RBS1-2525
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2526
- Timeslot number		1 OR 2 OR 3		RBS1-2527
- TFCI existence		TRUE		RBS1-2528
- Midamble shift and burst type				RBS1-2529
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2530
- Midamble allocation mode		Default midamble		RBS1-2531
- Midamble configuration		16		RBS1-2532
- Midamble Shift		Not Present		RBS1-2533
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2534
- Modulation		QPSK		RBS1-2535
- SS-TPC Symbols		1		RBS1-2536
- Additional TPC-SS Symbols		Not present		RBS1-2537
- First timeslot Code List		Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.		RBS1-2538
- channelisation codes		(SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.		RBS1-2539
- CHOICE more timeslots		No more timeslots		RBS1-2540
- UL CCTrCH List to Remove		Not present		RBS1-2541

Information Element	Condition	Value/remark	Version	Index
Uplink DPCH info	A11, A12, A13, A14, A15, A16a	Uplink DPCH info	Rel-7	RBS1-2542
	A19, A20, A22, A23, A24		Rel-8	RBS1-2543
- Uplink DPCH power control info				RBS1-2544
- CHOICE mode		TDD		RBS1-2545
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2546
- PRXPDPCHdes		Integer (-120...-58 by step of 1)		RBS1-2547
- CHOICE UL OL PC info				RBS1-2548
- Broadcast UL OL PC info		Null		RBS1-2549
- Uplink Timing Advance Control		Not Present		RBS1-2550
- UL CCTrCH List				RBS1-2551
- TFCS ID		1		RBS1-2552
- UL Target SIR		Real (-11 .. 20 by step of 0.5 dB) Reference to clause 6 Parameter set.		RBS1-2553
- Time info				RBS1-2554
- Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256		RBS1-2555
- Duration		Infinite		RBS1-2556
- Common timeslot info				RBS1-2557
- 2nd interleaving mode		Default value is "Frame"		RBS1-2558
- TFCI coding		Reference to clause 6 Parameter set		RBS1-2559
- Puncturing limit		Reference to clause 6 Parameter set		RBS1-2560
- Repetition period		1		RBS1-2561
- Repetition length		1		RBS1-2562
- Uplink DPCH timeslots and code				RBS1-2563
- Dynamic SF usage		FALSE		RBS1-2564
- First individual timeslot info				RBS1-2565
- Timeslot number				RBS1-2566
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2567
- Timeslot number		1 OR 2 OR 3		RBS1-2568
- TFCI existence		TRUE		RBS1-2569
- Midamble shift and burst type				RBS1-2570
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2571
- Midamble allocation mode		Default midamble		RBS1-2572
- Midamble configuration		16		RBS1-2573
- Midamble Shift		Not Present		RBS1-2574
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2575
- Modulation		QPSK		RBS1-2576
- SS-TPC Symbols		1		RBS1-2577
- Additional TPC-SS Symbols		Not present		RBS1-2578
- First timeslot Code List		Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.		RBS1-2579
- channelisation codes		(SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.		RBS1-2580
- CHOICE more timeslots		No more timeslots		RBS1-2581
- UL CCTrCH List to Remove		Not present		RBS1-2582
E-DCH Info	A11, A12, A13, A14, A15, A16a		Rel-7	RBS1-2583
	, A18, A19, A20, A22, A23, A24		Rel-8	RBS1-2584
- MAC-es/e reset indicator		TRUE		RBS1-2585
- CHOICE mode		TDD		RBS1-2586
- E-RUCCH info				RBS1-2587
- CHOICE TDD mode		1.28 Mcps TDD		RBS1-2588
- T-RUCCH		200		RBS1-2589
- N-RUCCH		3		RBS1-2590

Information Element	Condition	Value/remark	Version	Index
- T-WAIT		40		RBS1-2591
- T-SI		40		RBS1-2592
- Extended Estimation Window		Not present		RBS1-2593
- PRACH Information		Not present		RBS1-2594
- E-PUCH info				RBS1-2595
- E-TFCS information				RBS1-2596
- Reference Beta Information QPSK list				RBS1-2597
- Reference Code Rate		2		RBS1-2598
- Reference Beta		-10		RBS1-2599
- Reference Code Rate		8		RBS1-2600
- Reference Beta		-3		RBS1-2601
- Reference Beta Information 16QAM list				RBS1-2602
- Reference Code Rate		2		RBS1-2603
- Reference Beta		-5		RBS1-2604
- Reference Code Rate		8		RBS1-2605
- Reference Beta		2		RBS1-2606
- CHOICE TDD mode		1.28 Mcps TDD		RBS1-2607
- SNPL Reporting Type		type1		RBS1-2608
- PRXdes_base		-112		RBS1-2609
- Beacon PL Est		FALSE		RBS1-2610
- TPC step size		1		RBS1-2611
- Uplink synchronisation parameters		Not present		RBS1-2612
- E-PUCH TS configuration list				RBS1-2613
- TS number		3		RBS1-2614
- Midamble shift and burst type				RBS1-2615
- Midamble Allocation Mode		Default midamble		RBS1-2616
- Midamble configuration		16		RBS1-2617
- Midamble Shift		Not Present		RBS1-2618
- Minimum allowed code rate		0		RBS1-2619
- Maximum allowed code rate		63		RBS1-2620
- Power Offset for Scheduling Info		Not Present		RBS1-2621
- Non-scheduled transmission grant info	A11, A16a , A19, A20, A22, A23, A24	Not Present		RBS1-2622
			Rel-8	RBS1-2623
- Non-scheduled transmission grant info	A12, A13, A14, A15			RBS1-2624
- CHOICE TDD Option		1.28 Mcps TDD		RBS1-2625
- N _E -UCCH		1		RBS1-2626
- N _E -HICH		4		RBS1-2627
- Timeslot Resource Related Informationl		00100		RBS1-2628
- Power Resource Related Information		1		RBS1-2629
- Activation Time		0		RBS1-2630
- Subframe number		0		RBS1-2631
- Repetition period and length				RBS1-2632
- Repetition period		2		RBS1-2633
- Repetition Length		1		RBS1-2634
- Code Resource Information		8/1		RBS1-2635
- E-HICH Information				RBS1-2636
- Timeslot number		6		RBS1-2637
- Channelisation code		16/15		RBS1-2638
- Midamble Allocation mode		Default midamble		RBS1-2639
- Midamble configuration		16		RBS1-2640
- Signature Sequence Group Index		0		RBS1-2641
CHOICE Mode	A1, A2, A3, A4, A5, A6, A7, A8 , A9, A10	TDD		RBS1-2642
			Rel-5	RBS1-2643
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6, A7, A8	Not Present	Rel-5	RBS1-2644
Downlink HS-PDSCH Information	A9, A10 , A11, A12,		Rel-5 Rel-7	RBS1-2645 RBS1-2646

Information Element	Condition	Value/remark	Version	Index
	A13, A14, A15, A16, A16a, A17,		Rel-8	RBS1-2647
	A18, A19, A20, A21, A22, A23, A24			
- HS-SCCH Info				RBS1-2648
- CHOICE mode		TDD		RBS1-2649
- CHOICE TDD option		1.28 Mcps		RBS1-2650
- HS-SCCH Set Configuration				RBS1-2651

Information Element	Condition	Value/remark	Version	Index
- Timeslot number	0		RBS1-2652	
- First Channelisation code	(16/11)		RBS1-2653	
- Second Channelisation code	(16/12)		RBS1-2654	
- Midamble Allocation mode	Default midamble		RBS1-2655	
- Midamble configuration	8		RBS1-2656	
- BLER target	-2.0		RBS1-2657	
- HS-SICH configuration			RBS1-2658	
- Timeslot number	1		RBS1-2659	
- Channelisation code	(16/13)		RBS1-2660	
- Midamble Allocation mode	Default midamble		RBS1-2661	
- Midamble configuration	8		RBS1-2662	
- Ack-Nack Power Offset	0		RBS1-2663	
- PRX _{HS-SICH}	-120		RBS1-2664	
- TPC step size	1dB		RBS1-2665	
- CHOICE mode	TDD		RBS1-2666	
- CHOICE TDD option	1.28 Mcps TDD		RBS1-2667	
- HS-PDSCH Midamble Configuration			RBS1-2668	
- Midamble Allocation Mode	Default midamble		RBS1-2669	
- Midamble Configuration	8		RBS1-2670	
- Midamble Shift	Not present		RBS1-2671	
Downlink information common for all radio links	A5, A6, A18	Not Present	RBS1-2672 Rel-8	RBS1-2673
Downlink information common for all radio links	A1, A2, A3			RBS1-2674
- Downlink DPCH info common for all RL				RBS1-2675
- Timing indication	Maintain			RBS1-2676
- CFN-targetSFN frame offset	Not Present			RBS1-2677
- Downlink DPCH power control information				RBS1-2678
- CHOICE mode	TDD			RBS1-2679
- TPC Step Size	1			RBS1-2680
- MAC-d HFN initial value	Not Present			RBS1-2681
- CHOICE mode	TDD			RBS1-2682
- CHOICE mode	TDD			RBS1-2683
- CHOICE TDD option	1.28 Mcps TDD			RBS1-2684
- TSTD indicator	FALSE			RBS1-2685
- Default DPCH Offset Value	Not Present			RBS1-2686
Downlink information common for all radio links	A9 , A11, A12, A14, A15, A16, A17 , A21, A22		Rel-5 Rel-7 Rel-8	RBS1-2687 RBS1-2688 RBS1-2689
- Downlink DPCH info common for all RL				RBS1-2690
- Timing indication	Maintain			RBS1-2691
- CFN-targetSFN frame offset	Not Present			RBS1-2692
- Downlink DPCH power control information				RBS1-2693
- CHOICE mode	TDD			RBS1-2694
- TPC Step Size	1			RBS1-2695
- MAC-d HFN initial value	Not Present			RBS1-2696
- CHOICE mode	TDD			RBS1-2697
- CHOICE mode	TDD			RBS1-2698
- CHOICE TDD option	1.28 Mcps TDD			RBS1-2699
- TSTD indicator	FALSE			RBS1-2700
- Default DPCH Offset Value	Not Present			RBS1-2701
- MAC-hs reset indicator	TRUE			RBS1-2702
Downlink information common for all radio links	A4, A7, A8			RBS1-2703
- Downlink DPCH info common for all RL				RBS1-2704
- Timing indication	Initialize			RBS1-2705
- CFN-targetSFN frame offset	Not Present			RBS1-2706
- Downlink DPCH power control information				RBS1-2707
- CHOICE mode	TDD			RBS1-2708
- TPC Step Size	1			RBS1-2709
- MAC-d HFN initial value	Not Present			RBS1-2710
- CHOICE mode	TDD			RBS1-2711
- CHOICE mode	TDD			RBS1-2712

Information Element	Condition	Value/remark	Version	Index
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2713
- TSTD indicator		FALSE		RBS1-2714
- Default DPCH Offset Value				RBS1-2715
- CHOICE mode		TDD		RBS1-2716
- Default DPCH Offset Value		0 Integer(0..7)		RBS1-2717
Downlink information common for all radio links	A10		Rel-5	RBS1-2718
- Downlink DPCH info common for all RL				RBS1-2719
- Timing indication		Initialize		RBS1-2720
- CFN-targetSFN frame offset		Not Present		RBS1-2721
- Downlink DPCH power control information				RBS1-2722
- CHOICE mode		TDD		RBS1-2723
- TPC Step Size		1		RBS1-2724
- MAC-d HFN initial value		Not Present		RBS1-2725
- CHOICE mode		TDD		RBS1-2726
- CHOICE mode		TDD		RBS1-2727
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2728
- TSTD indicator		FALSE		RBS1-2729
- Default DPCH Offset Value		Not Present		RBS1-2730
- MAC-hs reset indicator		TRUE		RBS1-2731
Downlink information common for all radio links	A13, A15, A16a , A19, A20, A23, A24		Rel-7 Rel-8	RBS1-2732 RBS1-2733
- Downlink DPCH info common for all RL				RBS1-2734
- Timing indication		Maintain		RBS1-2735
- Timing maintained Synchronization indicator		FALSE		RBS1-2736
- Downlink DPCH power control information				RBS1-2737
- CHOICE mode		TDD		RBS1-2738
- TPC Step Size		1		RBS1-2739
- CHOICE mode		TDD		RBS1-2740
- CHOICE mode		TDD		RBS1-2741
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2742
- TSTD indicator		FALSE		RBS1-2743
- Default DPCH Offset Value		Not Present		RBS1-2744
- MAC-hs reset indicator		Not Present		RBS1-2745
Downlink information per radio link list	A1, A2, A3, A4, A7, A8 , A9, A10 , A16, A17 , A21			RBS1-2746
- Downlink information for each radio link				RBS1-2750
- Choice mode		TDD		RBS1-2751
- Primary CCPCH info				RBS1-2752
- Choice mode		TDD		RBS1-2753
- Choice TDD Option		1.28 Mcps TDD		RBS1-2754
- TSTD indicator		FALSE		RBS1-2755
- Cell parameters ID		Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)		RBS1-2756
- SCTD indicator		FALSE		RBS1-2757
- Downlink DPCH info for each RL				RBS1-2758
- CHOICE mode		TDD		RBS1-2759
- DL CCTrCh List				RBS1-2760
- TFCS ID		2 Integer(1..8)		RBS1-2761
- Time info				RBS1-2762
- Activation time		Now		RBS1-2763
- Duration		Infinite		RBS1-2764
- Common timeslot info				RBS1-2765
- 2 nd interleaving mode		Default value is "Frame"		RBS1-2766
- TFCI coding		Reference to clause 6 Parameter set		RBS1-2767
- Puncturing limit		Reference to clause 6 Parameter set		RBS1-2768
- Repetition period		1		RBS1-2769
- Repetition length		NULL		RBS1-2770
- Downlink DPCH timeslots and codes				RBS1-2771

Information Element	Condition	Value/remark	Version	Index
- First individual timeslot info			RBS1-2772	
- Timeslot number			RBS1-2773	
- CHOICE TDD option		1.28 Mcps TDD	RBS1-2774	
- Timeslot number		4 OR 5 OR 6	RBS1-2775	
- TFCI existence		TRUE	RBS1-2776	
- Midamble shift and burst type			RBS1-2777	
- CHOICE TDD option		1.28 Mcps TDD	RBS1-2778	
- Midamble allocation mode		Default midamble	RBS1-2779	
- Midamble configuration		16	RBS1-2780	
- Midamble Shift		Not Present	RBS1-2781	
- CHOICE TDD option		1.28 Mcps TDD	RBS1-2782	
- Modulation		QPSK	RBS1-2783	
- SS-TPC Symbols		1	RBS1-2784	
- Additional TPC-SS Sysbols		Not present	RBS1-2785	
- First timeslot channelisation codes		Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.	RBS1-2786	
- CHOICE codes representation			RBS1-2787	
- Channelisation codes bitmap		Reference to clause 6.11 Parameter Set	RBS1-2788	
- CHOICE more timeslots		No more timeslots	RBS1-2789	
- UL CCTrCH TPC List		This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.	RBS1-2790	
- UL TPC TFCS Identity			RBS1-2791	
- TFCS ID		1	RBS1-2792	
- Shared Channel Indicator		FALSE	RBS1-2793	
- DL CCTrCH List to Remove		Not present	RBS1-2794	
- SCCPCH Information for FACH		Not Present	R99 and Rel-4 only	RBS1-2795
- E-AGCH Info		Not Present	Rel-6	RBS1-2796
- CHOICE mode		TDD	Rel-7	RBS1-2797
- E-HICH Information		Not Present	Rel-7	RBS1-2798
Downlink information per radio link list	A11, A12, A13, A14, A15, A16a		Rel-7	RBS1-2799
	, A19, A20, A22, A23, A24		Rel-8	RBS1-2800
- Downlink information for each radio link				RBS1-2801
- Choice mode		TDD		RBS1-2802
- Primary CCPCH info				RBS1-2803
- Choice mode		TDD		RBS1-2804
- Choice TDD Option		1.28 Mcps TDD		RBS1-2805
- TSTD indicator		FALSE		RBS1-2806
- Cell parameters ID		Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)		RBS1-2807
- SCTD indicator		FALSE		RBS1-2808
- Downlink DPCH info for each RL				RBS1-2809
- CHOICE mode		TDD		RBS1-2810
- DL CCTrCh List				RBS1-2811
- TFCS ID		2 Integer(1..8)		RBS1-2812
- Time info				RBS1-2813
- Activation time		Now		RBS1-2814
- Duration		Infinite		RBS1-2815
- Common timeslot info				RBS1-2816
- 2nd interleaving mode		Default value is "Frame"		RBS1-2817
- TFCI coding		Reference to clause 6 Parameter set		RBS1-2818
- Puncturing limit		Reference to clause 6 Parameter set		RBS1-2819
- Repetition period		1		RBS1-2820
- Repetition length		NULL		RBS1-2821
- Downlink DPCH timeslots and codes				RBS1-2822
- First individual timeslot info				RBS1-2823
- Timeslot number				RBS1-2824

Information Element	Condition	Value/remark	Version	Index
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2825
- Timeslot number		4 OR 5 OR 6		RBS1-2826
- TFCI existence		TRUE		RBS1-2827
- Midamble shift and burst type				RBS1-2828
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2829
- Midamble allocation mode		Default midamble		RBS1-2830
- Midamble configuration		16		RBS1-2831
- Midamble Shift		Not Present		RBS1-2832
- CHOICE TDD option		1.28 Mcps TDD		RBS1-2833
- Modulation		QPSK		RBS1-2834
- SS-TPC Symbols		1		RBS1-2835
- Additional TPC-SS Sysbols		Not present		RBS1-2836
- First timeslot channelisation codes		Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.		RBS1-2837
- CHOICE codes representation				RBS1-2838
- Channelisation codes bitmap		Reference to clause 6.11 Parameter Set		RBS1-2839
- CHOICE more timeslots		No more timeslots		RBS1-2840
- UL CCTrCH TPC List		This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.		RBS1-2841
- UL TPC TFCS Identity				RBS1-2842
- TFCS ID		1		RBS1-2843
- Shared Channel Indicator		FALSE		RBS1-2844
- DL CCTrCH List to Remove		Not present		RBS1-2845
- E-AGCH Info				RBS1-2846
- CHOICE mode		TDD		RBS1-2847
- CHOICE TDD Option		1.28 Mcps TDD		RBS1-2848
- RDI Indicator		FALSE		RBS1-2849
- TPC step size		1		RBS1-2850
- E-AGCH set configuration				RBS1-2851
- Timeslot number		6		RBS1-2852
- First Channelisation code		16/13		RBS1-2853
- Second Channelisation code		16/14		RBS1-2854
- Midamble Allocation mode		Default midamble		RBS1-2855
- Midamble configuration		16		RBS1-2856
- Midamble Shift		Not Present		RBS1-2857
- E-AGCH BLER target		-0.05		RBS1-2858
- CHOICE mode		TDD		RBS1-2859
- CHOICE TDD Option		1.28 Mcps TDD		RBS1-2860
- N _{E-HICH}		15		RBS1-2861
- E-HICH set configuration				RBS1-2862
- EI		2		RBS1-2863
- Timeslot number		6		RBS1-2864
- Channelisation code		16/15		RBS1-2865
- Midamble Allocation mode		Default midamble		RBS1-2866
- Midamble configuration		16		RBS1-2867
- Midamble Shift		Not Present		RBS1-2868
Downlink information per radio link list	A5			RBS1-2869
- Downlink information for each radio link				RBS1-2870
- Choice mode		TDD		RBS1-2871
- Primary CCPCH info				RBS1-2872
- Choice mode		TDD		RBS1-2873
- Choice TDD Option		1.28 Mcps TDD		RBS1-2874
- TSTD indicator		FALSE		RBS1-2875
- Cell parameters ID		Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)		RBS1-2876
- SCTD indicator		FALSE		RBS1-2877
- Downlink DPCH info for each RL		Not Present		RBS1-2878
- SCCPCH Information for FACH		Not Present	R99 and Rel-4 only	RBS1-2879
- E-AGCH Info		Not Present	Rel-6	RBS1-2880

Information Element	Condition	Value/remark	Version	Index
- CHOICE mode		TDD	Rel-7	RBS1-2881
- E-HICH Information		Not Present	Rel-7	RBS1-2882
Downlink information per radio link list	A6, A18	Not Present		RBS1-2883 RBS1-2884
MBMS PL Service Restriction Information	A1, A2, A3, A4, A5, A6, A7, A8	Not Present		RBS1-2885
	A9, A10		Rel-5	RBS1-2886
	A11, A12, A13, A14, A15, A16, A16a, A17,		Rel-7	RBS1-2887
	A19, A20, A21, A22, A23, A24		Rel-8	RBS1-2888

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			RBS7-001
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3	Rel-5 Rel-6	RBS7-002 RBS7-003 RBS7-004
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. SS provides the value of this IE, from its internal counter.		RBS7-005 RBS7-006
- RRC message sequence number				RBS7-007
Integrity protection mode info		Not Present		RBS7-008
Ciphering mode info		Not Present		RBS7-009
Activation time	A1, A2, A3, A11 , A9	(256+CFN-(CFN MOD 8 + 8))MOD 256	Rel-5 Rel-6	RBS7-010 RBS7-011 RBS7-012
Activation time	A4, A5, A6, A7, A8 A10	Not Present	Rel-5	RBS7-013
New U-RNTI	A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10	Not Present	Rel-5	RBS7-014
New C-RNTI	A1, A2, A3, A4, A7, A8, A11 , A9, A10	Not Present	Rel-5 Rel-6	RBS7-015 RBS7-016 RBS7-017
New C-RNTI	A5, A6	'1010 1010 1010 1010'	Rel-5	RBS7-019
New DSCH-RNTI	A1, A2, A3, A4, A5, A6, A7, A8, A11	Not Present	Rel-6	RBS7-020 RBS7-021
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 A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11	TDD	Rel-6 Rel-7	RBS7-025 RBS7-026
- New E-RNTI	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11	Not Present	Rel-7	RBS7-027 RBS7-028
RRC State indicator	A1, A2, A3, A4, A7, A8, A11	CELL_DCH		RBS7-029

Information Element	Condition	Value/remark	Version	Index
RRC State indicator	, A9, A10		Rel-5	RBS7-030
UTRAN DRX cycle length coefficient	A5, A6 A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10	CELL_FACH Not Present	Rel-6	RBS7-031 RBS7-032 RBS7-033
CN information info			Rel-5	RBS7-034
URA identity			Rel-6	RBS7-035
CHOICE Specification mode			Rel-6	RBS7-036 RBS7-037 RBS7-038
- Signalling RB information to setup				RBS7-039
- RAB information for setup				RBS7-040
- RAB info				RBS7-041
- RAB identity				RBS7-042
- CN domain identity				RBS7-043
- NAS Synchronization Indicator				RBS7-044
- Re-establishment timer				RBS7-045
- RB information to setup				RBS7-046
- RB identity				RBS7-047
- PDCP info				RBS7-048
- CHOICE RLC info type				RBS7-049
- CHOICE Uplink RLC mode				RBS7-050
- Transmission RLC discard				RBS7-051
- Segmentation indication				RBS7-052
- CHOICE Downlink RLC mode				RBS7-053
- Segmentation indication				RBS7-054
- RB mapping info				RBS7-055
- Information for each multiplexing option				RBS7-056
- RLC logical channel mapping indicator				RBS7-057
- Number of uplink RLC logical channels				RBS7-058
- Uplink transport channel type				RBS7-059
- UL Transport channel identity				RBS7-060
- Logical channel identity				RBS7-061
- CHOICE RLC size list				RBS7-062
- MAC logical channel priority				RBS7-063
- Downlink RLC logical channel info				RBS7-064
- Number of downlink RLC logical channels				RBS7-065
- Downlink transport channel type				RBS7-066
- DL DCH Transport channel identity				RBS7-067
- DL DSCH Transport channel identity				RBS7-068
- Logical channel identity				RBS7-069
- RAB information for setup				RBS7-070
- RAB info				RBS7-071
- RAB identity				RBS7-072
- CN domain identity				RBS7-073
- NAS Synchronization Indicator				RBS7-074
- Re-establishment timer				RBS7-075
- RB information to setup				RBS7-076
- RB identity				RBS7-077
- PDCP info				RBS7-078
- CHOICE RLC info type				RBS7-079
- CHOICE Uplink RLC mode				RBS7-080
- Transmission RLC discard				RBS7-081

Information Element	Condition	Value/remark	Version	Index
- Segmentation indication	FALSE			RBS7-082
- CHOICE Downlink RLC mode	TM RLC			RBS7-083
- Segmentation indication	FALSE			RBS7-084
- RB mapping info				RBS7-085
- Information for each multiplexing option				RBS7-086
- RLC logical channel mapping indicator	Not Present			RBS7-087
- Number of uplink RLC logical channels	1			RBS7-088
- Uplink transport channel type	DCH			RBS7-089
- UL Transport channel identity	1			RBS7-090
- Logical channel identity	Not Present			RBS7-091
- CHOICE RLC size list	Configured			RBS7-092
- MAC logical channel priority	6			RBS7-093
- Downlink RLC logical channel info				RBS7-094
- Number of downlink RLC logical channels	1			RBS7-095
- Downlink transport channel type	DCH			RBS7-096
- DL DCH Transport channel identity	6			RBS7-097
- DL DSCH Transport channel identity	Not Present			RBS7-098
- Logical channel identity	Not Present			RBS7-099
- RB identity	11			RBS7-100
- PDCP info	Not Present			RBS7-101
- CHOICE RLC info type	RLC info			RBS7-102
- CHOICE Uplink RLC mode	TM RLC			RBS7-103
- Transmission RLC discard	Not Present			RBS7-104
- Segmentation indication	FALSE			RBS7-105
- CHOICE Downlink RLC mode	TM RLC			RBS7-106
- Segmentation indication	FALSE			RBS7-107
- RB mapping info				RBS7-108
- Information for each multiplexing option				RBS7-109
- RLC logical channel mapping indicator	Not Present			RBS7-110
- Number of uplink RLC logical channels	1			RBS7-111
- Uplink transport channel type	DCH			RBS7-112
- UL Transport channel identity	2			RBS7-113
- Logical channel identity	Not Present			RBS7-114
- CHOICE RLC size list	Configured			RBS7-115
- MAC logical channel priority	6			RBS7-116
- Downlink RLC logical channel info				RBS7-117
- Number of downlink RLC logical channels	1			RBS7-118
- Downlink transport channel type	DCH			RBS7-119
- 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				RBS7-132

Information Element	Condition	Value/remark	Version	Index
option - RLC logical channel mapping indicator		Not Present		RBS7-133
- Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel		1 DCH 3 Not Present Configured 6		RBS7-134 RBS7-135 RBS7-136 RBS7-137 RBS7-138 RBS7-139 RBS7-140
info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RAB information for setup - RAB info - RAB identity	A3, A4, A5, A6	1 DCH 8 Not Present Not Present (AM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315 20 FALSE		RBS7-141 RBS7-142 RBS7-143 RBS7-144 RBS7-145 RBS7-146 RBS7-147 RBS7-148
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 - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option		Not present Absent Not present RLC info AM RLC No Discard 15 128 500 4 200 200 Not Present 1 TRUE TRUE 99 Not Present AM RLC TRUE 128 200 Not Present TRUE Not Present 2 RBMuxOptions		RBS7-156 RBS7-157 RBS7-158 RBS7-159 RBS7-160 RBS7-161 RBS7-162 RBS7-163 RBS7-164 RBS7-165 RBS7-166 RBS7-167 RBS7-168 RBS7-169 RBS7-170 RBS7-171 RBS7-172 RBS7-173 RBS7-174 RBS7-175 RBS7-176 RBS7-177 RBS7-178 RBS7-179 RBS7-180 RBS7-181 RBS7-182 RBS7-183 RBS7-184 RBS7-185

Information Element	Condition	Value/remark	Version	Index
- 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	(high-speed AM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.	Rel-5	RBS7-213 RBS7-214 RBS7-215
- RAB info		PS domain		RBS7-216
- RAB identity		Not Present		RBS7-217
		useT315		RBS7-218
- CN domain identity		25		RBS7-219
- NAS Synchronization Indicator				RBS7-220
- Re-establishment timer				RBS7-221
- RB information to setup				RBS7-222
- RB identity		FALSE		
- PDCP info				
- Support for lossless SRNS relocation				
- Max PDCP SN window size		Not present		RBS7-223
- PDCP PDU header		Absent		RBS7-224
- Header compression information		Not present		RBS7-225
- 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

Information Element	Condition	Value/remark	Version	Index
- 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		100 100 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set		RBS7-234 RBS7-235 RBS7-236 RBS7-237 RBS7-238 RBS7-239 RBS7-240 RBS7-241 RBS7-242 RBS7-243 RBS7-244
Size - In-sequence delivery		TRUE		RBS7-245
- 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 option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - 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 - DL HS-DSCH MAC-d flow identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - 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 - DL HS-DSCH MAC-d flow identity	768 100 Not Present TRUE Not Present FALSE 3 RBMuxOptions Not Present 1 DCH 1 Not Present Configured 8 1 DCH 6 Not Present Not Present Not Present Not Present 1 DCH 1 Not Present Configured 8 1 HS-DSCH Not Present Not Present 0		RBS7-246 RBS7-247 RBS7-248 RBS7-249 RBS7-250 RBS7-251 RBS7-252 RBS7-253 RBS7-254 RBS7-255 RBS7-256 RBS7-257 RBS7-258 RBS7-259 RBS7-260 RBS7-261 RBS7-262 RBS7-263 RBS7-264 RBS7-265 RBS7-266 RBS7-267 RBS7-268 RBS7-269 RBS7-270 RBS7-271 RBS7-272 RBS7-273 RBS7-274 RBS7-275 RBS7-276 RBS7-277 RBS7-278 RBS7-279 RBS7-280 RBS7-281	

Information Element	Condition	Value/remark	Version	Index
- Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels		Not Present Not Present 1		RBS7-282 RBS7-283 RBS7-284
- Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info		RACH Not Present 7 Explicit list Reference to clause 6 Parameter Set 8		RBS7-285 RBS7-286 RBS7-287 RBS7-288 RBS7-289 RBS7-290 RBS7-291
- Number of downlink RLC logical channels - Downlink transport channel type		1 FACH		RBS7-292 RBS7-293
- DL DCH Transport channel identity - DL DSCH Transport channel identity		Not Present Not Present		RBS7-294 RBS7-295
- Logical channel identity - RAB information for setup - RAB info - RAB identity	A10	7 (high-speed AM DTCH for PS domain) 0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. PS domain Not Present useT315	Rel-5	RBS7-296 RBS7-297 RBS7-298 RBS7-299
- CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information		25 FALSE Not present Absent Not present		RBS7-300 RBS7-301 RBS7-302 RBS7-303 RBS7-304 RBS7-305 RBS7-306
- 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		RLC info AM RLC No Discard 15 128 500 4 100 100 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set		RBS7-310 RBS7-311 RBS7-312 RBS7-313 RBS7-314 RBS7-315 RBS7-316 RBS7-317 RBS7-318 RBS7-319 RBS7-320 RBS7-321 RBS7-322 RBS7-323 RBS7-324 RBS7-325 RBS7-326 RBS7-327 RBS7-328
Size		TRUE 768 100 Not Present TRUE Not Present		RBS7-329 RBS7-330 RBS7-331 RBS7-332 RBS7-333 RBS7-334 RBS7-335

Information Element	Condition	Value/remark	Version	Index
- One sided RLC re-establishment		FALSE		RBS7-336
- RB mapping info				RBS7-337
- Information for each multiplexing option		1 RBMuxOption		RBS7-338
- RLC logical channel mapping indicator		Not present		RBS7-339
- Number of uplink RLC logical channels		1		RBS7-340
info		DCH		RBS7-341
- Uplink transport channel type		1		RBS7-342
- UL Transport channel identity		Not Present		RBS7-343
- Logical channel identity		Configured		RBS7-344
- CHOICE RLC size list		8		RBS7-345
- MAC logical channel priority				RBS7-346
- Downlink RLC logical channel				
info				
- Number of downlink RLC logical channels		1		RBS7-347
- Downlink transport channel type		HS-DSCH		RBS7-348
- DL DCH Transport channel identity		Not present		RBS7-349
- DL DSCH Transport channel identity		Not present		RBS7-350
- DL HS-DSCH MAC-d flow identity		0		RBS7-351
- Logical channel identity				RBS7-352
- RAB information for setup	A11	Not Present		RBS7-353
- RAB info		(AM DTCH for PS domain) 0000 0101B		RBS7-354
- RAB identity		The first/leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS7-355
- CN domain identity		PS domain		RBS7-356
- NAS Synchronization Indicator		Not Present		RBS7-357
- Re-establishment timer		useT315		RBS7-358
- RB information to setup		20		RBS7-359
- RB identity				RBS7-360
- PDCP info				RBS7-361
- Support for lossless SRNS relocation		FALSE		RBS7-362
- Max PDCP SN window size		Not present		RBS7-363
- PDCP PDU header		Absent		RBS7-364
- Header compression information		Not present		RBS7-365
- CHOICE RLC info type		RLC info		RBS7-366
- CHOICE Uplink RLC mode		AM RLC		RBS7-367
- Transmission RLC discard		No Discard		RBS7-368
- CHOICE SDU discard mode		15		RBS7-369
- MAX_DAT		128		RBS7-370
- Transmission window size		500		RBS7-371
- Timer_RST		4		RBS7-372
- Max_RST				RBS7-373
- Polling info				RBS7-374
- Timer_poll_prohibit		200		RBS7-375
- Timer_poll		200		RBS7-376
- Poll_PDU		Not Present		RBS7-377
- Poll_SDU		1		RBS7-378
- Last transmission PDU poll		TRUE		RBS7-379
- Last retransmission PDU poll		TRUE		RBS7-380
- Poll_Windows		99		RBS7-381
- Timer_poll_periodic		Not Present		RBS7-382
- CHOICE Downlink RLC mode		AM RLC		RBS7-383
- In-sequence delivery		TRUE		RBS7-384
- Receiving window size		128		RBS7-385
- Downlink RLC status info				RBS7-386
- Timer_status_prohibit		200		RBS7-387

Information Element	Condition	Value/remark	Version	Index
- Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - 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 - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels		Not Present TRUE Not Present 2 RBMuxOptions Not Present 1 DCH 4 Not Present Configured 8 1 DCH 9 Not Present Not Present Not Present Not Present 1		RBS7-388 RBS7-389 RBS7-390 RBS7-391 RBS7-392 RBS7-393 RBS7-394 RBS7-395 RBS7-396 RBS7-397 RBS7-398 RBS7-399 RBS7-400 RBS7-401 RBS7-402 RBS7-403 RBS7-404 RBS7-405 RBS7-406 RBS7-407
- Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - 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 - Logical channel identity		RACH Not Present 7 Explicit list Reference to clause 6 Parameter Set 8 1 FACH Not Present Not Present 7		RBS7-408 RBS7-409 RBS7-410 RBS7-411 RBS7-412 RBS7-413 RBS7-414 RBS7-415 RBS7-416 RBS7-417 RBS7-418 RBS7-419
RB information to reconfigure list	A1, A2, A3, A4, A5, A6, A7, A8 A9, A10	Not Present	Rel-5 Rel-6	RBS7-420 RBS7-421 RBS7-422
RB information to be affected	A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10	Not Present	Rel-5 Rel-6	RBS7-423 RBS7-424 RBS7-425
Downlink counter synchronization info	A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10	Not Present		RBS7-426
PDCP ROHC target mode	A9, A10	Not Present	Rel-5 Rel-6	RBS7-427 RBS7-428
UL Transport channel information common for all transport channels	A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10	Not Present TDD	Rel-5	RBS7-429 RBS7-430 RBS7-431 RBS7-432 RBS7-433 RBS7-434 RBS7-435

Information Element	Condition	Value/remark	Version	Index
information				
- UL TFCS Identity		1		RBS7-436
- TFCS ID		FALSE		RBS7-437
- Shared Channel Indicator				RBS7-438
- UL TFCS				RBS7-439
- CHOICE TFCI signalling		Normal		RBS7-440
- TFCI Field 1 information				RBS7-441
- CHOICE TFCS representation				RBS7-442
- TFCS complete reconfigure		Complete reconfiguration		RBS7-443
information				
- CHOICE CTFC Size				RBS7-444
- CTFC information		Number of bits used must be enough to cover all combinations of CTFC from clause 6.11 Parameter Set.		
- CTFC		This IE is repeated for TFC numbers and reference to clause 6.11 Parameter Set		
- Power offset information		Reference to clause 6.11 Parameter Set		
- CHOICE Gain Factors		Computed Gain Factors(The last TFC is set to Signalled Gain Factors)		
- 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 β_d		8		RBS7-453
- Reference TFC ID		(Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)		
- CHOICE mode		0		RBS7-454
- TFC subset		TDD		RBS7-455
- TFC subset list		Not Present		RBS7-456
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		RBS7-459
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) DCH 1	Rel-5 Rel-6	RBS7-460 RBS7-461 RBS7-462
- Uplink transport channel type		Dedicated transport channels	Rel-5	RBS7-463 RBS7-464 RBS7-465 RBS7-466 RBS7-467 RBS7-468
- UL Transport channel identity				
- TFS				
- CHOICE Transport channel type				
- Dynamic Transport format				
information				
- RLC Size		Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.)		RBS7-469
- Number of TBs and TTI List		Not Present		RBS7-470
- Transmission Time Interval		Reference to clause 6.11 Parameter Set		RBS7-471
- Number of Transport blocks		All		RBS7-472
- CHOICE Logical channel list				RBS7-473
- Semi-static Transport Format				RBS7-474
information				
- Transmission time interval		Reference to clause 6.11 Parameter Set		RBS7-475
- Type of channel coding		Reference to clause 6.11 Parameter Set		RBS7-476
- Coding Rate		Reference to clause 6.11 Parameter Set		RBS7-477
- Rate matching attribute		Reference to clause 6.11 Parameter Set		RBS7-478
- CRC size		Reference to clause 6.11 Parameter Set		RBS7-479
- Uplink transport channel type		DCH		RBS7-480
- UL Transport channel identity		5		RBS7-481
- TFS				RBS7-482
- CHOICE Transport channel type		Dedicated transport channels		RBS7-483
- Dynamic Transport format				RBS7-484
information				

Information Element	Condition	Value/remark	Version	Index
- RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.11 Parameter Set All		RBS7-485 RBS7-486 RBS7-487 RBS7-488 RBS7-489 RBS7-490
Added or Reconfigured UL TrCH information	A11	Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set 1 DCH added for DTCH		RBS7-491 RBS7-492 RBS7-493 RBS7-494 RBS7-495 RBS7-496
- Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		DCH 4 Dedicated transport channels		RBS7-497 RBS7-498 RBS7-499 RBS7-500 RBS7-501
Added or Reconfigured UL TrCH information	A2, A8	Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.11 Parameter Set All		RBS7-502 RBS7-503 RBS7-504 RBS7-505 RBS7-506 RBS7-507
- Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) DCH 5 Dedicated transport channels		RBS7-508 RBS7-509 RBS7-510 RBS7-511 RBS7-512 RBS7-513 RBS7-514 RBS7-515 RBS7-516 RBS7-517 RBS7-518
- Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set DCH 1 Dedicated transport channels		RBS7-527 RBS7-528 RBS7-529 RBS7-530 RBS7-531 RBS7-532 RBS7-533 RBS7-534
- RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding		Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.11 Parameter Set All		RBS7-535 RBS7-536 RBS7-537 RBS7-538 RBS7-539 RBS7-540
		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set		RBS7-541 RBS7-542

Information Element	Condition	Value/remark	Version	Index
- Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set DCH 2 Dedicated transport channels Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.11 Parameter Set All		RBS7-543 RBS7-544 RBS7-545 RBS7-546 RBS7-547 RBS7-548 RBS7-549 RBS7-550 RBS7-551 RBS7-552 RBS7-553 RBS7-554 RBS7-555 RBS7-556
- Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set DCH 3 Dedicated transport channels Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.11 Parameter Set All		RBS7-557 RBS7-558 RBS7-559 RBS7-560 RBS7-561 RBS7-562 RBS7-563 RBS7-564 RBS7-565 RBS7-566 RBS7-567 RBS7-568 RBS7-569 RBS7-570 RBS7-571 RBS7-572
- Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set		RBS7-573 RBS7-574 RBS7-575 RBS7-576 RBS7-577
DL Transport channel information common for all transport channel - SCCPCH TFCS	A1, A2, A7, A8			RBS7-578 RBS7-579
- CHOICE mode - Individual DL CCTrCH information - DL TFCS identity - CHOICE DL parameters - UL DCH TFCS Identity DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information - DL TFCS identity - CHOICE DL parameters - DL TFCS - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information - CTFC	A3, A4, A5, A6, A11 A10	TDD 1 CCTrCh 1 SameasUL 1 Not Present TDD 1 CCTrCh 1 Independent Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.11 Parameter Set. This IE is repeated for TFC numbers and reference to clause 6.11 Reference to clause 6.11 Parameter Set	Rel-5 Rel-6	RBS7-580 RBS7-581 RBS7-582 RBS7-583 RBS7-584 RBS7-585 RBS7-586 RBS7-587 RBS7-588 RBS7-589 RBS7-590 RBS7-591 RBS7-592 RBS7-593 RBS7-594 RBS7-595 RBS7-596 RBS7-597 RBS7-598 RBS7-599

Information Element	Condition	Value/remark	Version	Index
- Power offset information		Not Present		RBS7-600
DL Transport channel information common for all transport channel	A9		Rel-5	RBS7-601
- SCCPCH TFCS		Not Present		RBS7-602
- CHOICE mode		TDD		RBS7-603
- Individual DL CCTrCH information		1 CCTrCh		RBS7-604
- DL TFCS identity		1		RBS7-605
- CHOICE DL parameters		Independent		RBS7-606
- DL TFCS				RBS7-607
- TFCI Field 1 Information		Complete reconfiguration		RBS7-608
- CHOICE TFCS representation		ctfc2bit		RBS7-609
- TFCS complete reconfigure		0		RBS7-610
- CHOICE CTFC Size		((DL DCH RAB, DCCH)=(TF0, TF0))		RBS7-611
- CTFC information		Not Present		RBS7-612
- CTFC		1		RBS7-613
- Power offset information		((DL DCH RAB, DCCH)=(TF0, TF1))		RBS7-614
- CTFC		Not Present		RBS7-615
- Power offset information		Not Present		RBS7-616
Deleted DL TrCH information	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10	Not Present	Rel-5 Rel-6	RBS7-617 RBS7-618 RBS7-619
Added or Reconfigured DL TrCH information	A1	1 DCH added, 1 DCH reconfigured		RBS7-620
- Downlink transport channel type		DCH		RBS7-621
- DL Transport channel identity		6		RBS7-622
- CHOICE DL parameters		Same as UL		RBS7-623
- Uplink transport channel type		DCH		RBS7-624
- UL TrCH identity		1		RBS7-625
- DCH quality target				RBS7-626
- BLER Quality value		-2.0		RBS7-627
- Downlink transport channel type		DCH		RBS7-628
- DL Transport channel identity		10		RBS7-629
- CHOICE DL parameters		Same as UL		RBS7-630
- Uplink transport channel type		DCH		RBS7-631
- UL TrCH identity		5		RBS7-632
- DCH quality target				RBS7-633
- BLER Quality value		-2.0		RBS7-634
Added or Reconfigured DL TrCH information	A3, A4, A5, A6, A7	2 TrCHs(DCH for DCCH and DCH for DTCH)		RBS7-635
- Downlink transport channel type		DCH		RBS7-636
- DL Transport channel identity		10		RBS7-637
- CHOICE DL parameters		Same as UL		RBS7-638
- Uplink transport channel type		DCH		RBS7-639
- UL TrCH identity		5		RBS7-640
- DCH quality target				RBS7-641
- BLER Quality value		-2.0		RBS7-642
- Downlink transport channel type		DCH		RBS7-643
- DL Transport channel identity		6		RBS7-644
- CHOICE DL parameters		Explicit		RBS7-645
		Except for RAB with the symmetric DL and UL rate: Same as UL		
- TFS		Dedicated transport channel		RBS7-646
- CHOICE Transport channel type				RBS7-647
- Dynamic transport format information				RBS7-648
- RLC Size		Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.)		RBS7-649
- Number of TBs and TTI List		Not Present		RBS7-650
- Transmission Time Interval		Reference to clause 6.11 Parameter Set only including TF0		RBS7-651
- Number of Transport blocks		All		RBS7-652
- CHOICE Logical channel list				RBS7-653
- Semi-static Transport Format information				RBS7-654

Information Element	Condition	Value/remark	Version	Index
- Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set		RBS7-655 RBS7-656 RBS7-657 RBS7-658
- CRC size - DCH quality target - BLER Quality value		Reference to clause 6.11 Parameter Set		RBS7-659
Added or Reconfigured DL TrCH information				RBS7-660
- Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format	A2, A8	-2.0 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) DCH 10 Same as UL DCH 5 2.0 DCH 6 Explicit		RBS7-661 RBS7-662 RBS7-663 RBS7-664 RBS7-665 RBS7-666 RBS7-667 RBS7-668 RBS7-669 RBS7-670 RBS7-671 RBS7-672 RBS7-673 RBS7-674 RBS7-675
information		Dedicated transport channel		
- RLC Size - Number of TBs and TTI List - Dynamic transport format		Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.)		RBS7-676 RBS7-677 RBS7-678
information				
- Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format		Not Present Reference to clause 6.11 Parameter Set All		RBS7-679 RBS7-680 RBS7-681 RBS7-682
information				
- Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set		RBS7-683 RBS7-684 RBS7-685 RBS7-686 RBS7-687 RBS7-688 RBS7-689 RBS7-690 RBS7-691 RBS7-692 RBS7-693 RBS7-694 RBS7-695
information		Dedicated transport channel		
- RLC Size - Number of TBs and TTI List - Dynamic transport format		Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.)		RBS7-696 RBS7-697 RBS7-698
information				
- Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format		Not Present Reference to clause 6.11 Parameter Set All		RBS7-699 RBS7-700 RBS7-701 RBS7-702
information				
- Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set		RBS7-703 RBS7-704 RBS7-705 RBS7-706 RBS7-707 RBS7-708 RBS7-709 RBS7-710 RBS7-711 RBS7-712 RBS7-713 RBS7-714
		Not Present DCH 8 Explicit		
		Dedicated transport channel		

Information Element	Condition	Value/remark	Version	Index
- Dynamic transport format information - RLC Size - Number of TBs and TTI List		Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.)		RBS7-715 RBS7-716 RBS7-717
- Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size	A9	Not Present Reference to clause 6.10 Parameter Set All Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set Not Present 3 TrCHs (DCH for DCCH and DCH plus HS-DSCH for DTCH) DCH 10 Same as UL DCH 5 -2.0 DCH 6 Explicit Dedicated transport channel Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.11 Parameter Set All Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set -2.0 HS-DSCH Not Present HS-DSCH Reference to clause 6.11 Parameter Set Implicit (one queue)	Rel-5 Rel-6	RBS7-718 RBS7-719 RBS7-720 RBS7-721 RBS7-722 RBS7-723 RBS7-724 RBS7-725 RBS7-726 RBS7-727 RBS7-728 RBS7-729 RBS7-730 RBS7-731 RBS7-732 RBS7-733 RBS7-734 RBS7-735 RBS7-736 RBS7-737 RBS7-738 RBS7-739 RBS7-740 RBS7-741 RBS7-742 RBS7-743 RBS7-744 RBS7-745 RBS7-746 RBS7-747 RBS7-748 RBS7-749 RBS7-750 RBS7-751 RBS7-752 RBS7-753 RBS7-754 RBS7-755 RBS7-756 RBS7-757 RBS7-758 RBS7-759 RBS7-760 RBS7-761 RBS7-762 RBS7-763 RBS7-764 RBS7-765 RBS7-766 RBS7-767 RBS7-768 RBS7-769 RBS7-770 RBS7-771 RBS7-772

Information Element	Condition	Value/remark	Version	Index
- MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target		0 Not present Not present		RBS7-773 RBS7-774 RBS7-775
Added or Reconfigured DL TrCH information	A10	2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Same as UL DCH 5 -2.0 HS-DSCH Not Present HS-DSCH Reference to clause 6.11 Parameter Set Implicit	Rel-5	RBS7-776 RBS7-777 RBS7-778 RBS7-779 RBS7-780 RBS7-781 RBS7-782 RBS7-783 RBS7-784 RBS7-785 RBS7-786 RBS7-787 RBS7-788 RBS7-789
Partitioning				
- Added or reconfigured MAC-d flow		(one queue)		RBS7-790
- MAC-hs queue to add or reconfigure list		0 0 50 16 336 0 Not present Not present		RBS7-791 RBS7-792 RBS7-793 RBS7-794 RBS7-795 RBS7-796 RBS7-797 RBS7-798 RBS7-799 RBS7-800
- DCH quality target		1 DCH for DTCH		RBS7-801
Added or Reconfigured DL TrCH information	A11	DCH 9 Explicit Dedicated transport channel Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.)		RBS7-802 RBS7-803 RBS7-804 RBS7-805 RBS7-806 RBS7-807 RBS7-808 RBS7-809 RBS7-810
information				
- RLC Size		Not Present		RBS7-811
- Number of TBs and TTI List		Reference to clause 6.11 Parameter Set		RBS7-812
- Dynamic transport format information		All		RBS7-813
- Transmission Time Interval		Reference to clause 6.11 Parameter Set		RBS7-814
- Number of Transport blocks		Reference to clause 6.11 Parameter Set		RBS7-815
- CHOICE Logical channel list		Reference to clause 6.11 Parameter Set		RBS7-816
- Semi-static Transport Format information		Reference to clause 6.11 Parameter Set		RBS7-817
- Transmission time interval		Reference to clause 6.11 Parameter Set		RBS7-818
- Type of channel coding		Reference to clause 6.11 Parameter Set		RBS7-819
- Coding Rate		Reference to clause 6.11 Parameter Set		RBS7-820
- Rate matching attribute		Reference to clause 6.11 Parameter Set		RBS7-821
- CRC size				
- DCH quality target				
- BLER Quality value				
Frequency info	A6	Not Present		RBS7-822
DTX-DRX timing information		Not Present	Rel-7	RBS7-823
DTX-DRX information		Not Present	Rel-7	RBS7-824
HS-SCCH less information		Not Present	Rel-7	RBS7-825
MIMO parameters		Not Present	Rel-7	RBS7-826
Maximum allowed UL TX power	A1, A2, A3, A4, A7, A8, A11, A9, A10	33dBm	Rel-7	RBS7-827
			Rel-5	RBS7-828
Maximum allowed UL TX power	A5, A6	Not Present	Rel-6	RBS7-829
				RBS7-830

Information Element	Condition	Value/remark	Version	Index
CHOICE channel requirement	A1, A2, A3, A4, A7, A8, A9, A10, A11	Uplink DPCH info TDD Not Present Broadcast UL OL PC info TDD Enabled 7.68 Mcps TDD Determined by observed timing deviation of the RACH at the node B 1 CCTrCh 1 +20dB Not present Not present Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set 7.68 Mcps TDD	R99 and Rel-4 only Rel-7 Rel-7	RBS7-831 RBS7-832 RBS7-833 RBS7-834 RBS7-835 RBS7-836 RBS7-837 RBS7-838 RBS7-839 RBS7-840 RBS7-841 RBS7-842 RBS7-843 RBS7-844 RBS7-845 RBS7-846 RBS7-847 RBS7-848 RBS7-849 RBS7-850 RBS7-851 RBS7-852 RBS7-853
codes VHCR	- Dynamic SF usage - First individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration - CHOICE TDD option - First timeslot Code List - Channelisation code - CHOICE more timeslots - UL CCTrCH List to Remove	TRUE The number of an uplink timeslot that has unassigned codes. TRUE 7.68 Mcps Reference to clause 6.11 Parameter Set Default Choose lowest possible Kcell value given burst type 7.68 Mcps TDD 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. 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.	Rel-7 Rel-7	RBS7-854 RBS7-855 RBS7-856 RBS7-857 RBS7-858 RBS7-859 RBS7-860 RBS7-861 RBS7-862 RBS7-863 RBS7-864 RBS7-865 RBS7-866 RBS7-867 RBS7-868
CHOICE channel requirement	A5,A6	Not present Not Present	Rel-5 and earlier	RBS7-869 RBS7-870
CHOICE Mode	A1, A2, A3, A4, A5, A6, A7, A8, A11	TDD	R99 and Rel-4 only	RBS7-871
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6, A7, A8, A11	Not Present	Rel-5	RBS7-872
Downlink HS-PDSCH Information	A9, A10		Rel-6	RBS7-873
- HS-SCCH Info - CHOICE mode - CHOICE TDD option - Ack-Nack Power Offset - HS-SICH Power Control Info - UL SIR target - HS-SICH Constant Value		TDD 7.68 Mcps 0dB 0dB -10dB	Rel-7	RBS7-874 RBS7-875 RBS7-876 RBS7-877 RBS7-878 RBS7-879 RBS7-880

Information Element	Condition	Value/remark	Version	Index
- Dhs-sync - HS-SCCH Set Configuration - Timeslot number - Channelisation code - Midamble Allocation mode - Midamble configuration - BLER target - HS-SICH configuration - Timeslot number - Channelisation code - Midamble Allocation mode - Midamble configuration - Measurement Feedback Info - CHOICE mode - CHOICE TDD option - HS-PDSCH Timeslot Configuration VHCR - HS-PDSCH Timeslot Configuration List - Timeslot Number - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 3		Not present 4 The timeslot in which HS-SCCH is to be configured CC32/x where x is a previously unassigned channelisation code in this TS Default 8 -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$) The timeslot in which HS-SICH is to be configured CC32/x where x is a previously unassigned channelisation code in this TS Default 8 Not Present TDD 7.68 Mcps TDD Reference to clause 6.11 Parameter Set The timeslot(s) in which HS-HS-DSCH is to be configured Reference to clause 6.11 Parameter Set Default 8		RBS7-881 RBS7-882 RBS7-883 RBS7-884 RBS7-885 RBS7-886 RBS7-887 RBS7-888 RBS7-889 RBS7-890 RBS7-891 RBS7-892 RBS7-893 RBS7-894 RBS7-895 RBS7-896 RBS7-897 RBS7-898 RBS7-899 RBS7-900 RBS7-901
Downlink information common for all radio links	A5, A6	Not present		RBS7-902
Downlink information common for all radio links	A1, A2, A3, A9, A11	Downlink DPCH info common for all RL Maintain Not Present	Rel-6 R99 and Rel-4 only	RBS7-903 RBS7-904 RBS7-905 RBS7-906 RBS7-907
- CHOICE DPCH info - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value - Mac-hs reset indicator		TDD 1 Not Present TDD TDD 7.68 Mcps TDD Not Present Not Present	Rel-7	RBS7-908 RBS7-909 RBS7-910 RBS7-911 RBS7-912 RBS7-913 RBS7-914 RBS7-915 RBS7-916
Downlink information common for all radio links	A4, A7, A8, A10	Downlink DPCH info common for all RL Initialise Not Present	Rel-6 R99 and Rel-4 only	RBS7-917 RBS7-918 RBS7-919 RBS7-920
- CHOICE DPCH info - Timing indication - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value - Mac-hs reset indicator		TDD 1 Not Present TDD TDD 7.68 Mcps TDD Not Present Not Present	Rel-7	RBS7-921 RBS7-922 RBS7-923 RBS7-924 RBS7-925 RBS7-926 RBS7-927 RBS7-928
Downlink information for each radio link	A1, A2, A3, A4, A7,	1		RBS7-929

Information Element	Condition	Value/remark	Version	Index
list				
- Downlink information for each radio link	A8, A9, A10, A11			RBS7-930
- Choice mode		7.68 Mcps TDD	Rel-7	RBS7-931
- Primary CCPCH info		TDD	Rel-7	RBS7-932
- Choice mode		7.68 Mcps TDD	Rel-7	RBS7-933
- CHOICE TDD option		Sync Case 2	Rel-7	RBS7-934
- CHOICE SyncCase		0	Rel-7	RBS7-935
- Timeslot		10	Rel-7	RBS7-936
- Cell parameters ID		FALSE	Rel-7	RBS7-937
- SCTD indicator		Downlink DPCH info for each RL	Rel-6	RBS7-938
- CHOICE DPCH info		TDD	Rel-6	RBS7-939
- CHOICE mode		1 CCTrCh	Rel-6	RBS7-940
- DL CCTrCH List		1	Rel-6	RBS7-941
- TFCS ID		Not Present	Rel-6	RBS7-942
- Activation time		Not Present	Rel-6	RBS7-943
- Duration			Rel-6	RBS7-944
- Common timeslot info		Reference to clause 6.11 Parameter Set	Rel-6	RBS7-945
- 2 nd interleaving mode		Reference to clause 6.11 Parameter Set	Rel-6	RBS7-946
- TFCI coding		Reference to clause 6.11 Parameter Set	Rel-6	RBS7-947
- Puncturing Limit		Reference to clause 6.11 Parameter Set	Rel-6	RBS7-948
- Repetition Period		Reference to clause 6.11 Parameter Set	Rel-6	RBS7-949
- Repetition Length		Reference to clause 6.11 Parameter Set	Rel-6	RBS7-950
- Downlink DPCH timeslots and codes VHCR		Reference to clause 6.11 Parameter Set	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		7.68 Mcps	Rel-7	RBS7-955
- CHOICE TDD option		Reference to clause 6.11 Parameter Set	Rel-7	RBS7-956
- CHOICE Burst Type		Default	Rel-7	RBS7-957
- Midamble Allocation Mode		Set Kcell to lowest possible value given the number of codes defined in clause 6.11 Parameter Set	Rel-7	RBS7-958
- Midamble configuration		7.68 Mcps	Rel-7	RBS7-959
- CHOICE TDD option			Rel-7	RBS7-960
- First timeslot channelisation codes VHCR			Rel-7	RBS7-961
- CHOICE codes representation		Consecutive codes		RBS7-962
- 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 first timeslot.		RBS7-965
- UL CCTrCH TPC List		1		RBS7-966
- UL TPC TFCS Identity		1		RBS7-967
- TFCS ID		False		RBS7-968
- Shared channel indicator		Not Present		RBS7-969
- DL CCTrCH List to Remove		Not Present		RBS7-970
- SCCPCH information for FACH		Not Present	R99 and Rel-4 only	RBS7-971
- E-AGCH Info		Not Present	Rel-6	RBS7-972
- CHOICE E-HICH Information		Not Present	Rel-6	RBS7-973
- CHOICE E-RGCH Information		Not Present	Rel-6	RBS7-974
Downlink information for each radio link list	A5			RBS7-975
- Downlink information for each radio link				RBS7-976
- Choice mode		TDD		RBS7-977

Information Element	Condition	Value/remark	Version	Index
- Primary CCPCH info - Choice mode - CHOICE TDD option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator		TDD 7.68 Mcps TDD Sync Case 2 0 10 FALSE		RBS7-978 RBS7-979 RBS7-980 RBS7-981 RBS7-982 RBS7-983 RBS7-984
- CHOICE DPCH info - E-AGCH Info - CHOICE E-HICH Information - CHOICE E-RGCH Information		Not present Not Present Not Present Not Present	Rel-6 Rel-6 Rel-6 Rel-6	RBS7-985 RBS7-986 RBS7-987 RBS7-988
Downlink information for each radio link list	A6	Not present		RBS7-989
MBMS PL Service Restriction Information	A1, A2, A3, A4, A5, A6, A7, A8 A9, A10	Not Present	Rel-5 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"	
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"	

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 - RRC Message sequence number	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. 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 CHOICE mode - CHOICE TDD option START	Not checked. TDD Check that this IE is present 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 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 Radio bearers for which reconfiguration would have succeeded	Checked to see if it meets test requirement Not Check

Contents of RADIO BEARER RELEASE COMPLETE message: AM (1.28 Mcps TDD)

Information Element	Value/remark	Version
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 CHOICE mode - 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 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 CHOICE mode - CHOICE TDD option	Not checked. TDD 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.	

Information Element	Value/remark	Version
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 Radio bearers for which reconfiguration would have succeeded	Checked to see if it meets test requirement 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	
Initial UE identity - CHOICE UE id type - IMSI (GSM-MAP)	Set to the UE's IMSI (GSM-MAP) or TMSI. To be checked against requirement if specified	Rel-5
Establishment cause	FALSE	
Protocol error indicator	This IE will not be checked by default behaviour, but in specific test case.	
UE Specific Behaviour Information 1 idle	To be checked against requirement if specified	
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 - SRNC identity - S-RNTI	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. 0000 0000 0001B 0000 0000 0000 0000 0001B	R99, Rel-4
CHOICE identity type - U-RNTI - SRNC identity - S-RNTI	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. 0000 0000 0001B 0000 0000 0000 0000 0001B	Rel-5

- Group identity - Group release information RRC transaction identifier Integrity check info	[FFS] [FFS] Arbitrarily selects an integer between 0 and 3 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 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			RCS3-013
- UE radio access TDD capability	TRUE		
update requirement			
- System specific capability update	GSM		RCS3-014
requirement list			
CHOICE specification mode	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
- CHOICE Downlink RLC mode	UM RLC		RCS3-024
- RB mapping info			RCS3-025
- Information for each multiplexing	2 RBMuxOptions		RCS3-026
option			RCS3-027

Information Element	Value/remark	Version	Index
- 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	1		RCS3-035
- Number of RLC logical channels	DCH		RCS3-036
- Downlink transport channel type	10		RCS3-037
- DL DCH Transport channel			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	1		RCS3-049
- Number of RLC logical channels	FACH		RCS3-050
- Downlink transport channel type	Not Present		RCS3-051
- DL DCH Transport channel			RCS3-052
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	No Discard		RCS3-060
- SDU discard mode	15		RCS3-061
- MAX_DAT			RCS3-062
			RCS3-063
			RCS3-064
			RCS3-065
- Transmission window size	128		RCS3-066
- Timer_RST	500		RCS3-067
- Max_RST	1		RCS3-068
- Polling info	200		RCS3-069
- Timer_poll_prohibit	200		RCS3-070
- Timer_poll	Not present		RCS3-071
- PolI_PDU			
- PolI_SDU	1		RCS3-072
- Last transmission PDU poll	TRUE		RCS3-073
- Last retransmission PDU poll	TRUE		RCS3-074
- PolI_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	2 RBMuxOptions		RCS3-085
- Information for each multiplexing option			RCS3-086

Information Element	Value/remark	Version	Index
- RLC logical channel mapping indicator	Not Present		RCS3-087
- 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	1		RCS3-094
- Number of RLC logical channels	DCH		RCS3-095
- Downlink transport channel type	10		RCS3-096
- DL DCH Transport channel			RCS3-097
identity			
- DL DSCH Transport channel	Not Present		RCS3-098
identity			
- Logical channel identity	2		RCS3-099
- RLC logical channel mapping indicator	Not Present		RCS3-100
- 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	1		RCS3-108
- Number of RLC logical channels	FACH		RCS3-109
- Downlink transport channel type	Not Present		RCS3-110
- DL DCH Transport channel			RCS3-111
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	AM RLC		RCS3-117
- CHOICE Uplink RLC mode	No Discard		RCS3-118
- Transmission RLC discard	15		RCS3-119
- SDU discard mode			RCS3-120
- MAX_DAT			RCS3-121
- Transmission window size	128		RCS3-122
- Timer_RST	500		RCS3-123
- Max_RST	1		RCS3-124
- Polling info			RCS3-125
- Timer_poll_prohibit	200		RCS3-126
- Timer_poll	200		RCS3-127
- Polli_PDU	Not present		RCS3-128
- Polli_SDU	1		RCS3-129
- Last transmission PDU poll	TRUE		RCS3-130
- Last retransmission PDU poll	TRUE		RCS3-131
- Polli_Windows	99		RCS3-132
- Timer_poll_periodic	Not Present		RCS3-133
- CHOICE Downlink RLC mode	AM RLC		RCS3-134
- In-sequence delivery	TRUE		RCS3-135
- Receiving window size	128		RCS3-136
- Downlink RLC status info			RCS3-137
- Timer_status_prohibit	200		RCS3-138
- Timer_EPC	Not Present		RCS3-139
- Missing PDU indicator	TRUE		RCS3-140
- Timer_STATUS_periodic	Not Present		RCS3-141
- RB mapping info	2 RBMuxOptions		RCS3-142
- Information for each multiplexing option			RCS3-143

Information Element	Value/remark	Version	Index
- RLC logical channel mapping indicator	Not Present		RCS3-146
- 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	1		RCS3-153
- Number of RLC logical channels	DCH		RCS3-154
- Downlink transport channel type	10		RCS3-155
- DL DCH Transport channel			RCS3-156
identity			
- DL DSCH Transport channel	Not Present		RCS3-157
identity			
- Logical channel identity	3		RCS3-158
- RLC logical channel mapping indicator	Not Present		RCS3-159
- 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	1		RCS3-167
- Number of RLC logical channels	FACH		RCS3-168
- Downlink transport channel type	Not Present		RCS3-169
- DL DCH Transport channel			RCS3-170
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	AM RLC		RCS3-176
- CHOICE Uplink RLC mode	No discard		RCS3-177
- Transmission RLC discard	15		RCS3-178
- SDU discard mode			RCS3-179
- MAX_DAT			RCS3-180
- 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	2 RBMuxOptions		RCS3-203
- Information for each multiplexing option			RCS3-204

Information Element	Value/remark	Version	Index
- RLC logical channel mapping indicator	Not Present		RCS3-205
- 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	1		RCS3-212
- Number of RLC logical channels	DCH		RCS3-213
- Downlink transport channel type	10		RCS3-214
- DL DCH Transport channel			RCS3-215
identity			
- DL DSCH Transport channel	Not Present		RCS3-216
identity			
- Logical channel identity	4		RCS3-217
- RLC logical channel mapping indicator	Not Present		RCS3-218
- 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	1		RCS3-226
- Number of RLC logical channels	FACH		RCS3-227
- Downlink transport channel type	Not Present		RCS3-228
- DL DCH Transport channel			RCS3-229
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 information			RCS3-235
- UL TFCS ID	(This IE is repeated for TFC number.)		RCS3-236
- UL TFCS			RCS3-237
- TFC subset			RCS3-238
- Allowed Transport Format combination	Default value is the complete existing set of transport format combinations		RCS3-239
- PRACH TFCS	0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.)		RCS3-240
- CHOICE TFCI signalling	(This IE is repeated for TFC number.)		RCS3-241
- TFCI Field 1 information	Normal		RCS3-242
- TFCS complete reconfigure information			RCS3-243
- 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 information	Not Present		RCS3-247
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 information			RCS3-254

Information Element	Value/remark	Version	Index
- 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 information			RCS3-260
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	1		RCS3-265
- TFCS ID			RCS3-266
- Shared Channel Indicator			RCS3-267
- CHOICE DL parameters			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
Maximum allowed UL TX power	Not Present		RCS3-279
CHOICE channel requirement info	Uplink DPCH info		RCS3-280
- Uplink DPCH power control info			RCS3-281
- CHOICE mode	TDD		RCS3-282
- CHOICE TDD option	3.84 Mcps		RCS3-283
- UL target SIR	Reference to clause 6.10 Parameter set		RCS3-284
- CHOICE mode	TDD		RCS3-285
- CHOICE UL OL PC info	Individually signalled		RCS3-286
- CHOICE TDD option	3.84 Mcps		RCS3-287
- Individual timeslot interference	Not Present		RCS3-288
- Activation time			RCS3-289
- Duration	(256+CFN-(CFN MOD 8 + 8))MOD 256		RCS3-290
- Common timeslot info	Infinite		RCS3-291
- 2 nd interleaving mode	Reference to clause 6.10 Parameter Set		RCS3-292
- TFCI coding	Reference to clause 6.10 Parameter Set		RCS3-293
- Puncturing Limit	Reference to clause 6.10 Parameter Set		RCS3-294
- Repetition Period	Reference to clause 6.10 Parameter Set		RCS3-295
- Repetition Length	Reference to clause 6.10 Parameter Set		RCS3-296
- Uplink DPCH timeslots and codes	Default is to use the old timeslots and codes		RCS3-297
- CPCH SET Info	(no data)	R99 and Rel-4 only	RCS3-298
Downlink information common for all radio links			RCS3-299
- Downlink DPCH info common for all RL			RCS3-300
- Timing indicator	Maintain		RCS3-301
- CFN-targetSFN frame offset	Not Present		RCS3-302
- Downlink DPCH power control information			RCS3-303
- DPC mode	0 (single)		RCS3-304
- CHOICE mode	TDD		RCS3-305

Information Element	Value/remark	Version	Index
- 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	TDD		RCS3-313
- Choice mode			RCS3-314
- Primary CCPCH info			RCS3-315
- CHOICE SyncCase	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	TDD		RCS3-320
- CHOICE mode			RCS3-321
- DL CCTrCH List	1		RCS3-322
- TFCS ID	(256+CFN-(CFN mod 8 + 8))mod 256		RCS3-323
- Time info	infinite		RCS3-324
- Activation time	Reference to the present document		RCS3-325
- Duration	TRUE		RCS3-326
- Common timeslot info	Reference to clause 6 Parameter set		RCS3-327
- 2 nd interleaving mode	1		RCS3-328
- TFCI coding	Empty		RCS3-329
- Puncturing limit			RCS3-330
- Repetition period			RCS3-331
- Repetition length			RCS3-332
- Downlink DPCH timeslots			RCS3-333
and codes			
- CHOICE more timeslots	3.84 Mcps		RCS3-334
- CHOICE TDD option	The number of a downlink timeslot that has unassigned codes in a frame.		RCS3-335
- Timeslot number			RCS3-336
burst type			
- Individual timeslot info	TRUE		RCS3-337
- TFCI existence			RCS3-338
- Midamble shift and			RCS3-339
Allocation Mode			
- Midamble	3.84 Mcps		RCS3-340
configuration burst type 1 and 3			RCS3-341
- First timeslot	Default		RCS3-342
channelisation codes			RCS3-343
- First channelisation code	As defined in 3GPP TS 25.221 [28]		RCS3-344
- Last channelisation code			RCS3-345
- CHOICE more timeslots			RCS3-346
- UL CCTrCH TPC List	(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.		RCS3-347
- SCCPCH information for FACH	(j/SF) where j is the highest numbered code that is being assigned in the slot.		RCS3-348
	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.		RCS3-349
	Not Present	R99 and Rel-4 only	RCS3-350
	Not Present		

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

Information Element	Condition	Value/remark	Version	Index
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		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 update requirement		FALSE		RCS1-020
- UE radio access 3.84 Mcps TDD capability update requirement		FALSE		RCS1-021
- UE radio access 1.28 Mcps TDD capability update requirement		TRUE		RCS1-022
- System specific capability update requirement list		Not Present		RCS1-023
CHOICE specification mode		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
- CHOICE Uplink RLC mode		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				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				RCS1-046
- DL HS-DSCH MAC-d flow		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		Reference to clause 6 Parameter Set		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		Not Present		RCS1-062

Information Element	Condition	Value/remark	Version	Index
identity				
- Logical channel identity		1		RCS1-063
- Signalling RB information to setup	A2	(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		1 RBMuxOption		RCS1-070
- Information for each multiplexing option		Not Present		RCS1-071
- RLC logical channel mapping indicator				
- Number of RLC logical channels		1		RCS1-072
- Uplink transport channel type		E-DCH		RCS1-073
- Logical channel identity		1		RCS1-074
- E-DCH MAC-d flow identity		1		RCS1-075
- DDI		1		RCS1-076
- RLC PDU size list		1 RLC PDU size		RCS1-077
- RLC PDU size		144 bits		RCS1-078
- Include in scheduling info		FALSE		RCS1-079
- MAC logical channel priority		1		RCS1-080
- Downlink RLC logical channel info		1		RCS1-081
- Number of RLC logical channels		HS-DSCH		RCS1-082
- Downlink transport channel type		Not present		RCS1-083
- DL DCH Transport channel identity		Not Present		RCS1-084
- DL DSCH Transport channel identity		1		RCS1-085
- DL HS-DSCH MAC-d flow identity		Not Present		RCS1-086
- Logical channel identity		1		RCS1-087
- Signalling RB information to setup	A3	(UM DCCH for RRC)	Rel-7	RCS1-088
- RB identity	A4, A5	Not present	Rel-8	RCS1-089
- CHOICE RLC info type		UM RLC		RCS1-090
- RLC info		Not Present		RCS1-091
- CHOICE Uplink RLC mode		UM RLC		RCS1-092
- Transmission RLC discard		7 bit		RCS1-093
- CHOICE Downlink RLC mode		FALSE		RCS1-094
- DL UM RLC LI size		TRUE		RCS1-095
- One sided RLC re-establishment		Not present		RCS1-096
- Alternative E-bit interpretation		1 RBMuxOption		RCS1-097
- Use special value of HE field		Not Present		RCS1-098
- RB mapping info		Not Present		RCS1-099
- Information for each multiplexing option		Not Present		RCS1-100
- RLC logical channel mapping indicator		1		RCS1-101
- Number of RLC logical channels		E-DCH		RCS1-102
- Uplink transport channel type		1		RCS1-103
- Logical channel identity		1		RCS1-104
- E-DCH MAC-d flow identity		1		RCS1-105
- DDI		1		RCS1-106
- CHOICE RLC PDU size		1		RCS1-107
- RLC PDU size list		Fixed size		RCS1-108
- RLC PDU size		1 RLC PDU size		RCS1-109
- Include in scheduling info		144 bits		RCS1-110
- MAC logical channel priority		FALSE		RCS1-111
- Downlink RLC logical channel info		1		RCS1-112
- Number of RLC logical channels		HS-DSCH		RCS1-113
- Downlink transport channel type		Not present		RCS1-114
- DL DCH Transport channel identity		Not Present		RCS1-115
- DL DSCH Transport channel identity		MAC-ehs		RCS1-116
- CHOICE DL MAC header type				RCS1-117

Information Element	Condition	Value/remark	Version	Index
- DL HS-DSCH MAC-ehs Queue Id - Logical channel identity - Signalling RB information to setup - RB identity - CHOICE RLC info type - CHOICE Uplink RLC mode	A1	1 1 (AM DCCH for RRC) 2 RLC info AM RLC		RCS1-120 RCS1-121 RCS1-122 RCS1-123 RCS1-124 RCS1-125
- 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_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel		No Discard 15 128 500 1 200 200 Not present 1 TRUE TRUE 99 Not Present AM RLC TRUE 128 200 Not Present TRUE Not Present 2 RBMuxOptions Not Present 1 DCH 5 2 Configure 2 1 DCH 10 Not Present Not Present Not Present 2 Not Present 1 RACH Not Present 2 Explicit List Reference to clause 6 Parameter Set 2 1 FACH Not Present Not Present		RCS1-126 RCS1-127 RCS1-128 RCS1-129 RCS1-130 RCS1-131 RCS1-132 RCS1-133 RCS1-134 RCS1-135 RCS1-136 RCS1-137 RCS1-138 RCS1-139 RCS1-140 RCS1-141 RCS1-142 RCS1-143 RCS1-144 RCS1-145 RCS1-146 RCS1-147 RCS1-148 RCS1-149 RCS1-150 RCS1-151 RCS1-152 RCS1-153 RCS1-154 RCS1-155 RCS1-156 RCS1-157 RCS1-158 RCS1-159 RCS1-160 RCS1-161 RCS1-162 RCS1-163 RCS1-164 RCS1-165 RCS1-166 RCS1-167 RCS1-168 RCS1-169 RCS1-170 RCS1-171 RCS1-172 RCS1-173 RCS1-174 RCS1-175 RCS1-176 RCS1-177 RCS1-178

Information Element	Condition	Value/remark	Version	Index
identity		Not Present		RCS1-179
- DL HS-DSCH MAC-d flow				
identity		2		RCS1-180
- Logical channel identity		(AM DCCH for RRC)	Rel-6	RCS1-181
- Signalling RB information to setup	A2	2		RCS1-182
- RB identity		RLC info		RCS1-183
- CHOICE RLC info type		AM RLC		RCS1-184
- CHOICE Uplink RLC mode				RCS1-185
- Transmission RLC discard				RCS1-186
- CHOICE SDU discard mode		No Discard		RCS1-187
- MAX_DAT		15		RCS1-188
- Transmission window size		128		RCS1-189
- Timer_RST		500		RCS1-190
- Max_RST		1		RCS1-191
- Polling info				RCS1-192
- Timer_poll_prohibit		200		RCS1-193
- Timer_poll		200		RCS1-194
- Poll_PDU		Not present		RCS1-195
- Poll_SDU		1		RCS1-196
- Last transmission PDU poll		TRUE		RCS1-197
- Last retransmission PDU poll		TRUE		RCS1-198
- Poll_Window		99		RCS1-199
- Timer_poll_periodic		Not Present		RCS1-200
- CHOICE Downlink RLC mode		AM RLC		RCS1-201
- In-sequence delivery		TRUE		RCS1-202
- Receiving window size		128		RCS1-203
- Downlink RLC status info				RCS1-204
- Timer_status_prohibit		200		RCS1-205
- Timer_EPC		Not Present		RCS1-206
- Missing PDU indicator		TRUE		RCS1-207
- Timer_STATUS_periodic		Not Present		RCS1-208
- RB mapping info		1 RBMuxOption		RCS1-209
- Information for each multiplexing option				RCS1-210
- RLC logical channel mapping indicator		Not Present		RCS1-211
- Number of RLC logical channels		1		RCS1-212
- Uplink transport channel type		E-DCH		RCS1-213
- Logical channel identity		2		RCS1-214
- E-DCH MAC-d flow identity		1		RCS1-215
- DDI		2		RCS1-216
- RLC PDU size list		1 RLC PDU size		RCS1-217
- RLC PDU size		144 bits		RCS1-218
- Include in scheduling info		FALSE		RCS1-219
- MAC logical channel priority		2		RCS1-220
- Downlink RLC logical channel info		1		RCS1-221
- Number of RLC logical channels		HS-DSCH		RCS1-222
- Downlink transport channel type		Not Present		RCS1-223
- DL DCH Transport channel				RCS1-224
identity				RCS1-225
- DL DSCH Transport channel		Not Present		RCS1-226
identity		1		RCS1-227
- DL HS-DSCH MAC-d flow		2		RCS1-228
identity		(AM DCCH for RRC)	Rel-7	RCS1-229
- Logical channel identity		Not present	Rel-8	RCS1-230
- Signalling RB information to setup	A3			RCS1-231
- RB identity	A4, A5	AM RLC		RCS1-232
- CHOICE RLC info type		No discard		RCS1-233
- RLC info		15		RCS1-234
- CHOICE Uplink RLC mode		32		RCS1-235
- Transmission RLC discard		500		RCS1-236
- SDU discard mode		1		RCS1-237
- MAX_DAT				RCS1-238
- Transmission window size				
- Timer_RST				
- Max_RST				

Information Element	Condition	Value/remark	Version	Index
- Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - CHOICE Downlink RLC PDU	200 200 Not Present 1 TRUE TRUE 99 Not Present AM RLC Reference to clause 6 Parameter Set		RCS1-239 RCS1-240 RCS1-241 RCS1-242 RCS1-243 RCS1-244 RCS1-245 RCS1-246 RCS1-247 RCS1-248 RCS1-249	
Size				
- Length indicator size - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - Alternative E-bit interpretation - Use special value of HE field - RB mapping info - Information for each multiplexing option	7 TRUE 32 200 Not Present TRUE Not Present Not Present TRUE 1 RBMuxOption		RCS1-250 RCS1-251 RCS1-252 RCS1-253 RCS1-254 RCS1-255 RCS1-256 RCS1-257 RCS1-258 RCS1-259 RCS1-260 RCS1-261	
option indicator		Not Present		RCS1-262
- RLC logical channel mapping indicator				
- Number of RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - CHOICE RLC PDU size - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info	1 E-DCH 2 1 2 Fixed size 1 RLC PDU size 144 bits FALSE 2		RCS1-263 RCS1-264 RCS1-265 RCS1-266 RCS1-267 Rel-8 RCS1-268 RCS1-269 RCS1-270 RCS1-271 RCS1-272 RCS1-273	
type		1 HS-DSCH		RCS1-274 RCS1-275
identity		Not Present		RCS1-276
identity		Not Present		RCS1-277
- CHOICE DL MAC header type - DL HS-DSCH MAC-ehs	MAC-ehs 1			RCS1-278 RCS1-279
Queue Id		2		RCS1-280
Signalling RB information to setup	A1	(AM DCCH for NAS_DT High priority) 3 RLC info AM RLC No Discard 15 128 500 1 200		RCS1-281 RCS1-282 RCS1-283 RCS1-284 RCS1-285 RCS1-286 RCS1-287 RCS1-288 RCS1-289 RCS1-290 RCS1-291 RCS1-292
- RB identity - 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		200 Not present 1 TRUE TRUE		RCS1-293 RCS1-294 RCS1-295 RCS1-296 RCS1-297

Information Element	Condition	Value/remark	Version	Index
- Poll_Windows	99	Not Present	RCS1-298	
- Timer_poll_periodic		AM RLC	RCS1-299	
- CHOICE Downlink RLC mode		TRUE	RCS1-300	
- In-sequence delivery		128	RCS1-301	
- Receiving window size			RCS1-302	
- Downlink RLC status info	200	Not Present	RCS1-303	
- Timer_status_prohibit		TRUE	RCS1-304	
- Timer_EPC		Not Present	RCS1-305	
- Missing PDU indicator		TRUE	RCS1-306	
- Timer_STATUS_periodic		Not Present	RCS1-307	
- RB mapping info		2 RBMuxOptions	RCS1-308	
- Information for each multiplexing option		Not Present	RCS1-309	
- RLC logical channel mapping indicator		Not Present	RCS1-310	
- Number of RLC logical channels	1		RCS1-311	
- Uplink transport channel type	DCH		RCS1-312	
- UL Transport channel identity	5		RCS1-313	
- Logical channel identity	3		RCS1-314	
- CHOICE RLC size list	Configured		RCS1-315	
- MAC logical channel priority	3		RCS1-316	
- Downlink RLC logical channel info	1		RCS1-317	
- Number of RLC logical channels	DCH		RCS1-318	
- Downlink transport channel type			RCS1-319	
- DL DCH Transport channel identity			RCS1-320	
- Transport channel identity	10		RCS1-321	
- DL DSCH Transport channel identity	Not Present		RCS1-322	
- DL HS-DSCH MAC-d flow identity	Not Present		RCS1-323	
- Logical channel identity	3		RCS1-324	
- RLC logical channel mapping indicator	Not Present		RCS1-325	
- Number of RLC logical channels	1		RCS1-326	
- Uplink transport channel type	RACH		RCS1-327	
- UL Transport channel identity	Not Present		RCS1-328	
- Logical channel identity	3		RCS1-329	
- CHOICE RLC size list	Explicit List		RCS1-330	
- RLC size index	Reference to clause 6 Parameter Set		RCS1-331	
- MAC logical channel priority	3		RCS1-332	
- Downlink RLC logical channel info	1		RCS1-333	
- Number of RLC logical channels	FACH		RCS1-334	
- Downlink transport channel type	Not Present		RCS1-335	
- DL DCH Transport channel identity	Not Present		RCS1-336	
- DL DSCH Transport channel identity	Not Present		RCS1-337	
- DL HS-DSCH MAC-d flow identity	Not Present		RCS1-338	
- Logical channel identity	3		RCS1-339	
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)		RCS1-340	
- RB identity	3		RCS1-341	
- CHOICE RLC info type	RLC info		RCS1-342	
- CHOICE Uplink RLC mode	AM RLC		RCS1-343	
- Transmission RLC discard	No Discard		RCS1-344	
- CHOICE SDU discard mode	15		RCS1-345	
- MAX_DAT	128		RCS1-346	
- Transmission window size	500		RCS1-347	
- Timer_RST	1		RCS1-348	
- Max_RST			RCS1-349	
- Polling info	200		RCS1-350	
- Timer_poll_prohibit	200		RCS1-351	
- Timer_poll	Not present		RCS1-352	
- Poll_PDU	1		RCS1-353	
- Poll_SDU	TRUE		RCS1-354	
- Last transmission PDU poll			RCS1-355	

Information Element	Condition	Value/remark	Version	Index
- Last retransmission PDU poll		TRUE		RCS1-356
- Poll_Windows		99		RCS1-357
- Timer_poll_periodic		Not Present		RCS1-358
- CHOICE Downlink RLC mode		AM RLC		RCS1-359
- In-sequence delivery		TRUE		RCS1-360
- Receiving window size		128		RCS1-361
- Downlink RLC status info				RCS1-362
- Timer_status_prohibit		200		RCS1-363
- Timer_EPC		Not Present		RCS1-364
- Missing PDU indicator		TRUE		RCS1-365
- Timer_STATUS_periodic		Not Present		RCS1-366
- RB mapping info				RCS1-367
- Information for each multiplexing option		1 RBMuxOption		RCS1-368
- RLC logical channel mapping indicator		Not Present		RCS1-369
- Number of RLC logical channels		1		RCS1-370
- Uplink transport channel type		E-DCH		RCS1-371
- Logical channel identity		2		RCS1-372
- E-DCH MAC-d flow identity		1		RCS1-373
- 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 identity		Not Present		RCS1-382
- DL DSCH Transport channel identity		Not Present		RCS1-383
- DL HS-DSCH MAC-d flow identity		1		RCS1-384
- Logical channel identity		2		RCS1-385
- Signalling RB information to setup	A3 A4, A5	(AM DCCH for NAS_DT High priority)	Rel-7 Rel-8	RCS1-386 RCS1-387
- RB identity		Not present		RCS1-388
- CHOICE RLC info type		AM RLC		RCS1-389
- RLC info		No discard		RCS1-390
- CHOICE Uplink RLC mode		15		RCS1-391
- Transmission RLC discard		32		RCS1-392
- SDU discard mode		500		RCS1-393
- MAX_DAT		1		RCS1-394
- Transmission window size				RCS1-395
- Timer_RST		200		RCS1-396
- Max_RST		200		RCS1-397
- Polling info		Not Present		RCS1-398
- Timer_poll_prohibit		1		RCS1-399
- Timer_poll		TRUE		RCS1-400
- Poll_PDU		TRUE		RCS1-401
- Poll_SDU		99		RCS1-402
- Last transmission PDU poll		Not Present		RCS1-403
- Last retransmission PDU poll		AM RLC		RCS1-404
- Poll_Window		Reference to clause 6 Parameter Set		RCS1-408
- Timer_poll_periodic		7		RCS1-409
- CHOICE Downlink RLC mode		TRUE		RCS1-410
- CHOICE Downlink RLC PDU Size		32		RCS1-411
- Length indicator size		200		RCS1-412
- In-sequence delivery		Not Present		RCS1-413
- Receiving window size		TRUE		RCS1-414
- Downlink RLC status info		Not Present		RCS1-415
- Timer_status_prohibit		TRUE		RCS1-416
- Timer_EPC		Not Present		RCS1-417
- Missing PDU indicator		Not Present		
- Timer_STATUS_periodic		Not Present		
- Alternative E-bit interpretation		Not Present		

Information Element	Condition	Value/remark	Version	Index
- Use special value of HE field		TRUE		RCS1-418
- RB mapping info		1 RBMuxOption		RCS1-419
- Information for each multiplexing option		Not Present		RCS1-420
- RLC logical channel mapping indicator				RCS1-421
- 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		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 identity		Not Present		RCS1-435
- DL DSCH Transport channel identity		Not Present		RCS1-436
- CHOICE DL MAC header type		MAC-ehs		RCS1-437
- DL HS-DSCH MAC-ehs Queue		1		RCS1-438
- 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		No discard		RCS1-444
- CHOICE SDU discard mode		15		RCS1-445
- MAX_DAT		128		RCS1-446
- Transmission window size		500		RCS1-447
- Timer_RST		1		RCS1-448
- Max_RST				RCS1-449
- Polling info		200		RCS1-450
- Timer_poll_prohibit		200		RCS1-451
- Timer_poll		Not present		RCS1-452
- Poll_PDU		1		RCS1-453
- Poll_SDU		TRUE		RCS1-454
- Last transmission PDU poll		TRUE		RCS1-455
- Last retransmission PDU poll		99		RCS1-456
- Poll_Windows		Not Present		RCS1-457
- Timer_poll_periodic		AM RLC		RCS1-458
- CHOICE Downlink RLC mode				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		2 RBMuxOptions		RCS1-467
- Information for each multiplexing option		Not Present		RCS1-468
- RLC logical channel mapping indicator				RCS1-469
- 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

Information Element	Condition	Value/remark	Version	Index
- Downlink transport channel type		DCH		RCS1-478
- DL DCH Transport channel identity				RCS1-479
- Transport channel identity		10		RCS1-480
- DL DSCH Transport channel identity		Not Present		RCS1-481
- DL HS-DSCH MAC-d flow identity		Not Present		RCS1-482
- Logical channel identity		4		RCS1-483
- RLC logical channel mapping indicator		Not Present		RCS1-484
- 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		Reference to clause 6 Parameter Set		RCS1-490
- MAC logical channel priority		4		RCS1-491
- Downlink RLC logical channel info		1		RCS1-492
- Number of RLC logical channels		FACH		RCS1-493
- Downlink transport channel type		Not Present		RCS1-494
- DL DCH Transport channel identity		Not Present		RCS1-495
- DL DSCH Transport channel identity		Not Present		RCS1-496
- DL HS-DSCH MAC-d flow identity		Not Present		RCS1-497
- Logical channel identity		4		RCS1-498
- Signalling RB information to setup	A2	(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		No discard		RCS1-504
- CHOICE SDU discard mode		15		RCS1-505
- MAX_DAT		128		RCS1-506
- Transmission window size		500		RCS1-507
- Timer_RST		1		RCS1-508
- Max_RST				RCS1-509
- Polling info		200		RCS1-510
- Timer_poll_prohibit		200		RCS1-511
- Timer_poll		Not present		RCS1-512
- Poll_PDU		1		RCS1-513
- Poll_SDU		TRUE		RCS1-514
- Last transmission PDU poll		TRUE		RCS1-515
- Last retransmission PDU poll		99		RCS1-516
- Poll_Windows		Not Present		RCS1-517
- Timer_poll_periodic		AM RLC		RCS1-518
- CHOICE Downlink RLC mode		TRUE		RCS1-519
- In-sequence delivery		128		RCS1-520
- Receiving window size		200		RCS1-521
- Downlink RLC status info		Not Present		RCS1-522
- Timer_status_prohibit		TRUE		RCS1-523
- Timer_EPC		Not Present		RCS1-524
- Missing PDU indicator		TRUE		RCS1-525
- Timer_STATUS_periodic		Not Present		RCS1-526
- RB mapping info		1 RBMuxOption		RCS1-527
- Information for each multiplexing option		Not Present		RCS1-528
- RLC logical channel mapping indicator		1		RCS1-529
- Number of RLC logical channels		E-DCH		RCS1-530
- Uplink transport channel type		4		RCS1-531
- Logical channel identity		1		RCS1-532
- E-DCH MAC-d flow identity		4		RCS1-533
- DDI		1 RLC PDU size		RCS1-534
- RLC PDU size list		144 bits		RCS1-535

Information Element	Condition	Value/remark	Version	Index
- Include in scheduling info		FALSE		RCS1-536
- MAC logical channel priority		4		RCS1-537
- Downlink RLC logical channel info		1		RCS1-538
- Number of RLC logical channels		HS-DSCH		RCS1-539
- Downlink transport channel type		Not Present		RCS1-540
- DL DCH Transport channel				RCS1-541
identity				
- DL DSCH Transport channel		Not Present		RCS1-542
identity		1		RCS1-543
identity		4		RCS1-544
- Logical channel identity				RCS1-545
- RB mapping info				RCS1-546
- Information for each multiplexing		1 RBMuxOption		
option				
- RLC logical channel mapping		Not Present		RCS1-547
indicator				
- Number of RLC logical channels		1		RCS1-548
- 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		1		RCS1-557
- Number of RLC logical channels		HS-DSCH		RCS1-558
- Downlink transport channel type		Not Present		RCS1-559
- DL DCH Transport channel				RCS1-560
identity				
- DL DSCH Transport channel		Not Present		RCS1-561
identity		1		RCS1-562
identity		4		RCS1-563
- Logical channel identity				
- Signalling RB information to setup	A3, A5	(AM DCCH for NAS DT Low priority)	Rel-7 Rel-8	RCS1-564 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		No discard		RCS1-570
- SDU discard mode		15		RCS1-571
- MAX_DAT		32		RCS1-572
- Transmission window size		500		RCS1-573
- Timer_RST		1		RCS1-574
- Max_RST				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

Information Element	Condition	Value/remark	Version	Index
- Alternative E-bit interpretation - Use special value of HE field - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - CHOICE RLC PDU size - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE DL MAC header type - DL HS-DSCH MAC-ehs Queue Id - Logical channel identity		Not Present TRUE 1 RBMuxOption Not Present 1 E-DCH 4 1 Fixed size 2 1 RLC PDU size 144 bits FALSE 4 1 HS-DSCH Not Present Not Present MAC-ehs 1 4		RCS1-595 RCS1-596 RCS1-597 RCS1-598 RCS1-599 RCS1-600 RCS1-601 RCS1-602 RCS1-603 RCS1-604 RCS1-605 RCS1-606 RCS1-607 RCS1-608 RCS1-609 RCS1-610 RCS1-611 RCS1-612 RCS1-613 RCS1-614 RCS1-615 RCS1-616 RCS1-617
- UL Transport channel information for all transport channels - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information - UL TFCS ID - TFCS ID - Shared Channel Indicator - UL TFCS - CHOICE TFCI signalling - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - CTFC - Power offset Information Factors ID - CHOICE Gain - Reference TFC Factors	A1	Not Present TDD (This IE is repeated for TFC number.) 1 FALSE Normal Complete reconfiguration Configured, Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set Reference to clause 6.11.5.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 0, Integer(0..3) Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)		RCS1-618 RCS1-619 RCS1-620 RCS1-621 RCS1-622 RCS1-623 RCS1-624 RCS1-625 RCS1-626 RCS1-627 RCS1-628 RCS1-629 RCS1-630 RCS1-631 RCS1-632 RCS1-633 RCS1-634 RCS1-635 RCS1-636
□d TFC ID	- CHOICE mode - Gain Factor - Reference - CHOICE mode - TFC subset	TDD 15 0, Integer (0..3) TDD Default value is the complete existing set of transport format combinations		RCS1-637 RCS1-638 RCS1-639 RCS1-640 RCS1-641

Information Element	Condition	Value/remark	Version	Index
- CHOICE Subset representation		Allowed transport format combination list		RCS1-642
- Allowed Transport Format combination		0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.)		RCS1-643
- Transport format combination		Integer (0.. 1023)		RCS1-644
- TFC subset list		Not present		RCS1-645
- Added or Reconfigured UL TrCH information list				RCS1-646
- UL Transport channel information for all transport channels	A2 , A3 , A4, A5	Not Present	Rel-6 Rel-7 Rel-8	RCS1-647 RCS1-648 RCS1-649 RCS1-650
- Added or Reconfigured UL TrCH information	A1			
- Uplink transport channel type		DCH		RCS1-651
- UL Transport channel identity		5		RCS1-652
- TFS		Dedicated transport channels		RCS1-653
- CHOICE Transport channel type				RCS1-654
- Dynamic Transport format information				RCS1-655
- RLC size		According to clause 6 for standalone 13.6 kbps signalling radio bearer (This IE is repeated for TFI number)		RCS1-656
- Number of TBs and TTI lists		Not Present		RCS1-657
- Transmission Time Interval		Reference to clause 6.11 Parameter Set		RCS1-658
- Number of Transport blocks		All		RCS1-659
- CHOICE Logical channel list				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 Rel-7	RCS1-666 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		rvttable	Rel-7	RCS1-671
- HARQ RV Configuration		(for DCCH)	Rel-7	RCS1-672
- Added or reconfigured E-DCH MAC-d flow		1		RCS1-673
- E-DCH MAC-d flow identity		0		RCS1-674
- E-DCH MAC-d flow power offset		7		RCS1-675
- E-DCH MAC-d flow maximum number of retransmissions				RCS1-676
- E-DCH MAC-d flow multiplexing list		Not Present		RCS1-677
- CHOICE transmission grant type		Non-scheduled grant info	Rel-6	RCS1-678
- CHOICE mode		TDD	Rel-7	RCS1-679
- CHOICE TDD Option		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	Rel-7	RCS1-690
- Channelisation code		16/1		RCS1-691
- Midamble Allocation mode		Default midamble		RCS1-692
- Midamble configuration		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

Information Element	Condition	Value/remark	Version	Index
- 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		rvttable		RCS1-700
- HARQ RV Configuration		(for DCCH)		RCS1-701
- Added or reconfigured E-DCH				RCS1-702
MAC-d flow				
- 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				
- E-DCH MAC-d flow multiplexing		Not Present		RCS1-706
list				
- CHOICE transmission grant type		Scheduled grant info		RCS1-707
DL Transport channel information				RCS1-708
common for all transport channel				
- 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	A2, A3	Not Present	Rel-7	RCS1-716
common for all transport channel	, A4, A5		Rel-8	RCS1-717
- Added or Reconfigured TrCH	A1			RCS1-718
information list				
- Added or Reconfigured DL TrCH				RCS1-719
information				
- 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		-63 (-6.3)		RCS1-725
- BLER Quality value				RCS1-726
- Added or Reconfigured TrCH	A2			RCS1-727
information list				
- Added or Reconfigured DL TrCH				RCS1-728
information				
- 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				RCS1-732
flow				
- MAC-hs queue to add or		(one queue)		RCS1-733
reconfigure list				
- 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				RCS1-743
flow				
Added or Reconfigured DL TrCH	A3	1 TrCH (HS-DSCH for DCCH)	Rel-7	RCS1-744
information				RCS1-745
	A4		Rel-8	
- 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

Information Element	Condition	Value/remark	Version	Index
- CHOICE Memory Partitioning - CHOICE DL MAC header type - Added or reconfigured MAC-ehs reordering queue - MAC-ehs queue to add or reconfigure list - MAC-ehs queue Id - T1 - MAC-ehs window size - MAC-ehs queue to delete list - DCH quality target		Implicit MAC-ehs (1 queue) 1 50 16 Not present Not present		RCS1-751 RCS1-752 RCS1-753 RCS1-754 RCS1-755 RCS1-756 RCS1-757 RCS1-758 RCS1-759
Added or Reconfigured DL TrCH information	A5	Not present	Rel-8	RCS1-760
Frequency info		Not Present		RCS1-761
Maximum allowed UL TX power		33dBm		RCS1-762
CHOICE channel requirement	A1	Uplink DPCH info		RCS1-763
- Uplink DPCH power control info - CHOICE mode - CHOICE TDD option - PRXPDPCHdoes - CHOICE UL OL PC info - CHOICE TDD option - TPC step size - Primary CCPCH Tx Power		TDD 1.28 Mcps TDD Reference to clause 6.11 Parameter set Individually signalled 1.28 Mcps TDD 1 dB Not Present TDD		RCS1-764 RCS1-765 RCS1-766 RCS1-767 RCS1-768 RCS1-769 RCS1-770 RCS1-771 RCS1-772
- CHOICE mode - Uplink Timing Advance Control - CHOICE Timing Advance - CHOICE TDD option - Uplink synchronization parameters		Enabled 1.28 Mcps TDD		RCS1-773 RCS1-774 RCS1-775 RCS1-776
size		1		RCS1-777
- Uplink synchronization step size		1		RCS1-778
frequency		Not present		RCS1-779
- Synchronization parameters		1		RCS1-780
- UL CCTrCH List		Real (-11 .. 20 by step of 0.5 dB)		RCS1-781
- TFCS ID		Reference to clause 6.11 Parameter set.		RCS1-782
- UL Target SIR		(256+CFN-(CFN MOD 8 + 8))MOD 256		RCS1-783
- Time info		Infinite		RCS1-784
- Activation time				RCS1-785
- Duration				RCS1-786
- Common timeslot info		Reference to clause 6 Parameter Set		RCS1-787
- 2 _{nd} interleaving mode		Reference to clause 6 Parameter Set		RCS1-788
- TFCI coding		Reference to clause 6 Parameter Set		RCS1-789
- Puncturing Limit		null		RCS1-790
- Repetition Period				RCS1-791
- Repetition Length				RCS1-792
- Uplink DPCH timeslots and codes		FALSE		RCS1-793
- Dynamic SF usage				RCS1-794
- First individual timeslot info		1.28 Mcps TDD		RCS1-795
- Timeslot number		1 OR 2 OR 3		RCS1-796
- CHOICE TDD option		TRUE		RCS1-797
- Timeslot number				RCS1-798
- TFCI existence		1.28 Mcps TDD		RCS1-799
- Midamble shift and burst type		Default midamble		RCS1-800
- CHOICE TDD option				RCS1-801
- Midamble allocation				RCS1-802
- Midamble configuration		16		RCS1-803
- Midamble Shift		Not Present		RCS1-804
- CHOICE TDD option		1.28 Mcps TDD		RCS1-805
- Modulation		QPSK		RCS1-806
- SS-TPC Symbols		1		RCS1-807
- Additional TPC-SS Sysbols		Not present		RCS1-808
- First timeslot Code List		Repeated (1,2) for each channelisation code		RCS1-808

Information Element	Condition	Value/remark	Version	Index
- channelisation codes		assigned in the slot to meet the needs of clause 6 Parameter Set. (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 Rel-8	RCS1-812 RCS1-813
- Uplink DPCH power control info		TDD		RCS1-814
- CHOICE mode		1.28 Mcps TDD		RCS1-815
- CHOICE TDD option		Reference to clause 6.11 Parameter set		RCS1-816
- PRXPDPCHdes		Individually signalled		RCS1-817
- CHOICE UL OL PC info		1.28 Mcps TDD		RCS1-818
- CHOICE TDD option		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 parameters				RCS1-826
- Uplink synchronization step size		1		RCS1-827
- Uplink synchronization frequency		1		RCS1-828
- Synchronization parameters		Not present		RCS1-829
- UL CCTrCH List		1		RCS1-830
- TFCS ID		Real (-11 .. 20 by step of 0.5 dB)		RCS1-831
- UL Target SIR		Reference to clause 6.11 Parameter set.		RCS1-832
- Time info				RCS1-833
- Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256		RCS1-834
- Duration		Infinite		RCS1-835
- Common timeslot info				RCS1-836
- 2 nd 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		null		RCS1-840
- Repetition Length				RCS1-841
- Uplink DPCH timeslots and codes				RCS1-842
- Dynamic SF usage		FALSE		RCS1-843
- First individual timeslot info				RCS1-844
- Timeslot number		1.28 Mcps TDD		RCS1-845
- CHOICE TDD option		1 OR 2 OR 3		RCS1-846
- Timeslot number		TRUE		RCS1-847
- TFCI existence				RCS1-848
- Midamble shift and burst type		1.28 Mcps TDD		RCS1-849
- CHOICE TDD option		Default midamble		RCS1-850
- Midamble allocation				RCS1-851
- Midamble configuration		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 Sysbols		Not present		RCS1-857
- 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

Information Element	Condition	Value/remark	Version	Index
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 , A4		Rel-7	RCS1-865
- MAC-es/e reset indicator		TRUE	Rel-8	RCS1-866
- CHOICE mode		TDD		RCS1-867
- CHOICE TDD option		1.28 Mcps TDD		RCS1-868
-E-RUCCH Info				RCS1-870
-T-RUCCH		200ms		RCS1-871
- 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		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 , A4, A5		Rel-7	RCS1-899
			Rel-8	RCS1-900
- HS-SCCH Info				RCS1-901
- CHOICE mode				RCS1-902
- CHOICE TDD option				RCS1-903
- HS-SCCH Set Configuration				RCS1-904
- Timeslot number		0		RCS1-905
- First Channelisation code		(16/5)		RCS1-906
- Second Channelisation code		(16/6)		RCS1-907
- Midamble Allocation mode		Default midamble		RCS1-908
- Midamble configuration		8		RCS1-909
- BLER target		-2.0		RCS1-910
- HS-SICH configuration				RCS1-911
- Timeslot number		1		RCS1-912
- Channelisation code		(16/11)		RCS1-913
- Midamble Allocation mode		Default midamble		RCS1-914
- Midamble configuration		8		RCS1-915
- Ack-Nack Power Offset		0		RCS1-916
- PRX _{HS-SICH}				RCS1-917
- TPC step size		1dB		RCS1-918
- Timeslot number		0		RCS1-919
- First Channelisation code		(16/7)		RCS1-920
- Second Channelisation code		(16/8)		RCS1-921
- Midamble Allocation mode		Default midamble		RCS1-922
- Midamble configuration		8		RCS1-923
- BLER target		-2.0		RCS1-924
- HS-SICH configuration				RCS1-925
- Timeslot number		1		RCS1-926
- Channelisation code		(16/12)		RCS1-927
- Midamble Allocation mode		Default midamble		RCS1-928

Information Element	Condition	Value/remark	Version	Index
- Midamble configuration		8		RCS1-929
- Ack-Nack Power Offset		0		RCS1-930
- PRX _{HS-SICH}				RCS1-931
- TPC step size		1dB		RCS1-932
- Timeslot number		0		RCS1-933
- First Channelisation code		(16/9)		RCS1-934
- Second Channelisation code		(16/10)		RCS1-935
- Midamble Allocation mode		Default midamble		RCS1-936
- Midamble configuration		8		RCS1-937
- BLER target		-2.0		RCS1-938
- HS-SICH configuration				RCS1-939
- Timeslot number		1		RCS1-940
- Channelisation code		(16/14)		RCS1-941
- Midamble Allocation mode		Default midamble		RCS1-942
- Midamble configuration		8		RCS1-943
- Ack-Nack Power Offset		0		RCS1-944
- PRX _{HS-SICH}				RCS1-945
- TPC step size		1dB		RCS1-946
- 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		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				RCS1-957
information				
- 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
- TSTD indicator		FALSE		RCS1-964
- Default DPCH Offset Value		Not Present		RCS1-965
Downlink information common for all radio links	A2, A3 , A4			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				RCS1-970
information				
- CHOICE mode		TDD		RCS1-972
- TPC Step Size		1		RCS1-973
- MAC-d HFN initial value		Not Present		RCS1-974
- CHOICE mode		TDD		RCS1-975
- CHOICE mode		TDD		RCS1-976
- CHOICE TDD option		1.28 Mcps TDD		RCS1-977
- TSTD indicator		FALSE		RCS1-978
- Default DPCH Offset Value		Not Present		RCS1-979
- MAC-hs reset indicator		TRUE		RCS1-980
Downlink information common for all radio links	A5	Not present		RCS1-981
Downlink information for each radio link list	A1			RCS1-982
- Downlink information for each radio link				RCS1-983
- Choice mode		TDD		RCS1-984
- Primary CCPCH info				RCS1-985
- CHOICE mode				RCS1-986
- CHOICE TDD option		1.28 Mcps TDD		RCS1-987
- TSTD indicator		FALSE		RCS1-988
- Cell parameters ID		Not present		RCS1-989

Information Element	Condition	Value/remark	Version	Index
- SCTD indicator		FALSE		RCS1-990
- Downlink DPCCH info for each RL		TDD		RCS1-991
- CHOICE mode		1		RCS1-992
- DL CCTrCH List		(256+CFN-(CFN mod 8 + 8))mod 256		RCS1-993
- TFCS ID		infinite		RCS1-994
- Time info				RCS1-995
- Activation time				RCS1-996
- Duration				RCS1-997
- Common timeslot info		Reference to clause 6.11 Parameter set		RCS1-998
- 2 nd interleaving mode		Reference to clause 6.11 Parameter set		RCS1-999
- TFCI coding		Reference to clause 6.11 Parameter set		RCS1-1000
- Puncturing limit		1		RCS1-1001
- Repetition period				RCS1-1002
- Repetition length				RCS1-1003
- Downlink DPCCH timeslots		NULL		RCS1-1004
and codes info				RCS1-1005
- First Individual timeslot				RCS1-1006
- Timeslot number				RCS1-1007
- CHOICE <i>more timeslots</i>		1.28 McpsTDD		RCS1-1008
- CHOICE TDD option		4 OR 5 OR 6		RCS1-1009
- Timeslot number				RCS1-1010
- Individual timeslot				
info				RCS1-1011
- TFCI existence		TRUE		RCS1-1012
- Midamble shift and				
burst type				RCS1-1013
- CHOICE TDD option		1.28 Mcps TDD		RCS1-1014
- Midamble		Default		
Allocation Mode configuration				RCS1-1015
- Midamble		16 Integer(2, 4, 6, 8, 10, 12, 14, 16)		
Symbols				RCS1-1016
- Midamble Shift		Not present		RCS1-1017
- CHOICE TDD option		1.28 Mcps TDD		RCS1-1018
- Modulation		QPSK		RCS1-1019
- SS-TPC Symbols		1		RCS1-1020
- Additional TPC-SS		Not present		
channelisation codes representation				RCS1-1021
- First timeslot				RCS1-1022
- CHOICE codes		Consecutive codes		
- First channelisation code				RCS1-1023
- Last channelisation code		(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set..		RCS1-1024
- CHOICE more timeslots		(j/SF) where j is the highest numbered code that is being assigned in the slot.		RCS1-1025
FACH		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.		
Downlink information for each radio link list	A2, A3, A4			RCS1-1026
- Downlink information for each radio link				RCS1-1027
- Choice mode		1		RCS1-1028
- Primary CCPCH info		Not present		RCS1-1029
- CHOICE <i>mode</i>		Not Present		
- CHOICE TDD option				R99 and Rel-4 only
- TSTD indicator				Rel-7
- Cell parameters ID				Rel-8
- SCTD indicator				
- Downlink DPCCH info for each RL				RCS1-1030

Information Element	Condition	Value/remark	Version	Index
- CHOICE mode - DL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes info	TDD 1 (256+CFN-(CFN mod 8 + 8))mod 256 infinite Reference to clause 6.11 Parameter set Reference to clause 6.11 Parameter set Reference to clause 6.11 Parameter set 1 NULL		RCS1-1041 RCS1-1042 RCS1-1043 RCS1-1044 RCS1-1045 RCS1-1046 RCS1-1047 RCS1-1048 RCS1-1049 RCS1-1050 RCS1-1051 RCS1-1052 RCS1-1053	
			RCS1-1054	
			RCS1-1055 RCS1-1056 RCS1-1057 RCS1-1058 RCS1-1059	
info	- First Individual timeslot - Timeslot number - CHOICE <i>more timeslots</i> - CHOICE TDD option - Timeslot number - Individual timeslot	1.28 McpsTDD 4 OR 5 OR 6	RCS1-1060 RCS1-1061	
burst type	- TFCI existence - Midamble shift and	TRUE		
Allocation Mode	- CHOICE TDD option -Midamble	1.28 Mcps TDD Default	RCS1-1062 RCS1-1063	
configuration	- Midamble - Midamble Shift - CHOICE TDD option - Modulation - SS-TPC Symbols - Additional TPC-SS	16 Integer(2, 4, 6, 8, 10, 12, 14, 16) Not present 1.28 Mcps TDD QPSK 1 Not present	RCS1-1064 RCS1-1065 RCS1-1066 RCS1-1067 RCS1-1068 RCS1-1069	
Symbols	- First timeslot channelisation codes - CHOICE codes		RCS1-1070	
representation	- First channelisation code - Last channelisation code - CHOICE more timeslots	Consecutive codes (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.. (j/SF) where j is the highest numbered code that is being assigned in the slot. 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.	RCS1-1071 RCS1-1072 RCS1-1073 RCS1-1074	
			RCS1-1075 RCS1-1076	
			RCS1-1077 RCS1-1078	
FACH	- UL CCTrCH TPC List - UL TPC TFCS Identity - DL CCTrCH List to Remove -SCCPCH information for	1 Not present Not Present	R99 and Rel-4 only	
-E-AGCH info				
- CHOICE mode			RCS1-1079	
-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		16/3	Rel-7	RCS1-1086
-Second Channelisation code		16/4	Rel-7	RCS1-1087
-Midamble Allocation mode		Default midamble	Rel-7	RCS1-1088
-Midamble configuration		4	Rel-7	RCS1-1089
- Midamble Shift		Not present	Rel-7	RCS1-1090
- E-AGCH BLER target		-2	Rel-7	RCS1-1091

Information Element	Condition	Value/remark	Version	Index
-CHOICE mode		TDD	Rel-7	RCS1-1092
-E-HICH Information		1.28 Mcps TDD	Rel-7	RCS1-1093
-CHOICE TDD option			Rel-7	RCS1-1094
- N _{E-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		16/5	Rel-7	RCS1-1099
-Midamble Allocation mode		Default midamble	Rel-7	RCS1-1100
-Midamble configuration		4	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

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
- SRNC identity	0000 0000 0001B		RCS7-006
- S-RNTI	0000 0000 0000 0001B		RCS7-007
New C-RNTI	0000 0000 0000 0001B		RCS7-008
New H-RNTI	Not Present	Rel-6	RCS7-009
CHOICE mode	TDD	Rel-7	RCS7-010
- New E-RNTI	Not Present	Rel-7	RCS7-011
RRC State Indicator	CELL_DCH	Rel-7	RCS7-012
UTRAN DRX cycle length coefficient	9		RCS7-013
Capability update requirement			RCS7-014
- UE radio access FDD capability	FALSE		RCS7-015
update requirement			RCS7-016
- UE radio access TDD capability	TRUE		
update requirement			
- System specific capability update requirement list	GSM		RCS7-017
CHOICE specification mode	Complete specification	Rel-5	RCS7-018
- Complete specification	(UM DCCH for RRC)	Rel-5	RCS7-019
- Signalling RB information to setup	Not Present		RCS7-020
- RB identity			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
- CHOICE Downlink RLC mode	UM RLC		RCS7-026
- RB mapping info	2 RBMuxOptions		RCS7-027
- Information for each multiplexing option			RCS7-028
- RLC logical channel mapping indicator	Not Present		RCS7-029
			RCS7-030
			RCS7-031

Information Element	Value/remark	Version	Index
- 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	1	RCS7-038	
- Number of RLC logical channels	1	RCS7-039	
- Downlink transport channel type	DCH	RCS7-040	
- DL DCH Transport channel	10	RCS7-041	
identity			
- DL DSCH Transport channel	Not Present	RCS7-042	
identity			
- Logical channel identity	1	RCS7-043	
- RLC logical channel mapping	Not Present	RCS7-044	
indicator			
- 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	
identity			
- MAC logical channel priority	1	RCS7-051	
- Downlink RLC logical channel info	1	RCS7-052	
- Number of RLC logical channels	FACH	RCS7-053	
- Downlink transport channel type	Not Present	RCS7-054	
- DL DCH Transport channel	Not Present	RCS7-055	
identity			
- DL DSCH Transport channel	Not Present	RCS7-056	
identity			
- 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	
- CHOICE Uplink RLC mode	AM RLC	RCS7-062	
- Transmission RLC discard	No Discard	RCS7-063	
- SDU discard mode	15	RCS7-064	
- MAX_DAT		RCS7-065	
identity			
- Transmission window size	128	RCS7-066	
- Timer_RST	500	RCS7-067	
- Max_RST	1	RCS7-068	
- Polling info		RCS7-069	
- Timer_poll_prohibit	200	RCS7-070	
- Timer_poll	200	RCS7-071	
- Poll_PDU	Not present	RCS7-072	
option			
- Poll_SDU	1	RCS7-073	
- Last transmission PDU poll	TRUE	RCS7-074	
- Last retransmission PDU poll	TRUE	RCS7-075	
- Poll_Window	99	RCS7-076	
- Timer_poll_periodic	Not Present	RCS7-077	
- CHOICE Downlink RLC mode	AM RLC	RCS7-078	
- In-sequence delivery	TRUE	RCS7-079	
- Receiving window size	128	RCS7-080	
- Downlink RLC status info		RCS7-081	
- Timer_status_prohibit	200	RCS7-082	
- Timer_EPC	Not Present	RCS7-083	
- Missing PDU indicator	TRUE	RCS7-084	
- Timer_STATUS_periodic	Not Present	RCS7-085	
- RB mapping info	2 RBMuxOptions	RCS7-086	
- Information for each multiplexing		RCS7-087	
option			
- RLC logical channel mapping	Not Present	RCS7-088	
indicator			RCS7-089
			RCS7-090

Information Element	Value/remark	Version	Index
- 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	1	RCS7-097	
- Number of RLC logical channels	DCH	RCS7-098	
- Downlink transport channel type	10	RCS7-099	
- DL DCH Transport channel		RCS7-100	
identity			
- DL DSCH Transport channel	Not Present	RCS7-101	
identity			
- Logical channel identity	2	RCS7-102	
- RLC logical channel mapping	Not Present	RCS7-103	
indicator			
- 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	1	RCS7-111	
- Number of RLC logical channels	FACH	RCS7-112	
- Downlink transport channel type	Not Present	RCS7-113	
- DL DCH Transport channel		RCS7-114	
identity			
- DL DSCH Transport channel	Not Present	RCS7-115	
identity			
- 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	
- CHOICE Uplink RLC mode	AM RLC	RCS7-121	
- Transmission RLC discard	No Discard	RCS7-122	
- SDU discard mode	15	RCS7-123	
- MAX_DAT		RCS7-124	
- Transmission window size	128	RCS7-125	
- Timer_RST	500	RCS7-126	
- Max_RST	1	RCS7-127	
- Polling info		RCS7-128	
- Timer_poll_prohibit	200	RCS7-129	
- Timer_poll	200	RCS7-130	
- Poll_PDU	Not present	RCS7-131	
- Poll_SDU	1	RCS7-132	
- Last transmission PDU poll	TRUE	RCS7-133	
- Last retransmission PDU poll	TRUE	RCS7-134	
- Poll_Windows	99	RCS7-135	
- Timer_poll_periodic	Not Present	RCS7-136	
- CHOICE Downlink RLC mode	AM RLC	RCS7-137	
- In-sequence delivery	TRUE	RCS7-138	
- Receiving window size	128	RCS7-139	
- Downlink RLC status info		RCS7-140	
- Timer_status_prohibit	200	RCS7-141	
- Timer_EPC	Not Present	RCS7-142	
- Missing PDU indicator	TRUE	RCS7-143	
- Timer_STATUS_periodic	Not Present	RCS7-144	
- RB mapping info	2 RBMuxOptions	RCS7-145	
- Information for each multiplexing		RCS7-146	
option			
- RLC logical channel mapping	Not Present	RCS7-147	
indicator		RCS7-148	
			RCS7-149

Information Element	Value/remark	Version	Index
- 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	1	RCS7-156	
- Number of RLC logical channels	DCH	RCS7-157	
- Downlink transport channel type	10	RCS7-158	
- DL DCH Transport channel		RCS7-159	
identity			
- DL DSCH Transport channel	Not Present	RCS7-160	
identity			
- Logical channel identity	3	RCS7-161	
- RLC logical channel mapping	Not Present	RCS7-162	
indicator			
- 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	1	RCS7-170	
- Number of RLC logical channels	FACH	RCS7-171	
- Downlink transport channel type	Not Present	RCS7-172	
- DL DCH Transport channel		RCS7-173	
identity			
- DL DSCH Transport channel	Not Present	RCS7-174	
identity			
- 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	
- 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	
- Transmission window size	128	RCS7-184	
- Timer_RST	500	RCS7-185	
- Max_RST	1	RCS7-186	
- Polling info		RCS7-187	
- Timer_poll_prohibit	200	RCS7-188	
- Timer_poll	200	RCS7-189	
- Poll_PDU	Not present	RCS7-190	
- Poll_SDU	1	RCS7-191	
- Last transmission PDU poll	TRUE	RCS7-192	
- Last retransmission PDU poll	TRUE	RCS7-193	
- Poll_Windows	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	128	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	2 RBMuxOptions	RCS7-204	
- Information for each multiplexing		RCS7-205	
option			
- RLC logical channel mapping	Not Present	RCS7-206	
indicator		RCS7-207	
		RCS7-208	

Information Element	Value/remark	Version	Index
- 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	10	RCS7-218	
identity			
- DL DSCH Transport channel	Not Present	RCS7-219	
identity			
- Logical channel identity	4	RCS7-220	
- RLC logical channel mapping	Not Present	RCS7-221	
indicator			
- 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	
identity			
- 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	Not Present	RCS7-232	
identity			
- DL DSCH Transport channel	Not Present	RCS7-233	
identity			
- 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	
- Individual UL CCTrCH information		RCS7-238	
- UL TFCS ID	(This IE is repeated for TFC number.)	RCS7-239	
- UL TFCS		RCS7-240	
- TFC subset		RCS7-241	
combination			
- Allowed Transport Format	Default value is the complete existing set of transport format combinations	RCS7-242	
- PRACH TFCS	0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.)	RCS7-243	
- CHOICE TFCI signalling	(This IE is repeated for TFC number.)	RCS7-244	
- TFCI Field 1 information	Normal	RCS7-245	
- TFCS complete		RCS7-246	
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	RCS7-247	
- CTFC information		RCS7-248	
- CHOICE mode	Not Present	RCS7-249	
- Individual UL CCTrCH information	TDD	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	

Information Element	Value/remark	Version	Index
- 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	1		RCS7-268
- TFCS ID			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
- CHOICE TDD option	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 UL OL PC info	Individually signalled		RCS7-293
- CHOICE TDD option	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			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 nd 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	Default is to use the old timeslots and codes	Rel-7	RCS7-309
VHCR			
- 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 RL			RCS7-314
- Timing indicator	Maintain		RCS7-315

Information Element	Value/remark	Version	Index
- CFN-targetSFN frame offset	Not Present		RCS7-316
- Downlink DPCH power control information			RCS7-317
- 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	TDD		RCS7-325
- CHOICE mode	7.68 Mcps	Rel-7	RCS7-326
- CHOICE TDD option	Sync Case 1		RCS7-327
- CHOICE SyncCase	PCCPCH timeslot		RCS7-328
- Timeslot	0		RCS7-329
- Cell parameters ID			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	7.68Mcps TDD	Rel-7	RCS7-333
- CHOICE mode	1		RCS7-334
- DL CCTrCH List	(256+CFN-(CFN mod 8 + 8))mod 256		RCS7-335
- TFCS ID	infinite		RCS7-336
- Time info	Reference to the present document		RCS7-337
- Activation time	TRUE		RCS7-338
- Duration	Reference to clause 6 Parameter set		RCS7-339
- Common timeslot info	1		RCS7-340
- 2 nd interleaving mode	Empty		RCS7-341
- TFCI coding			RCS7-342
- Puncturing limit			RCS7-343
- Repetition period			RCS7-344
- Repetition length			RCS7-345
- Downlink DPCH timeslots			RCS7-346
and codes VHCR			
- CHOICE more timeslots	7.68 Mcps	Rel-7	RCS7-347
- CHOICE TDD option	The number of a downlink timeslot that has unassigned codes in a frame.		RCS7-348
- Timeslot number			RCS7-349
			RCS7-350
			RCS7-351
			RCS7-352
burst type			
- Individual timeslot info	TRUE		
- TFCI existence			
- Midamble shift and			
			RCS7-353
			RCS7-354
			RCS7-355
			RCS7-356
Allocation Mode	7.68 Mcps	Rel-7	
	Default		
	8		RCS7-357
configuration burst type 1 and 3			RCS7-358
- First timeslot			
channelisation codes VHCR			
- 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.		RCS7-359
- Last channelisation code	(j/SF) where j is the highest numbered code that is being assigned in the slot.		RCS7-360
- 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.		RCS7-361
			RCS7-362
			RCS7-363
- UL CCTrCH TPC List	Not Present		
- DL CCTrCH List to Remove	Not Present		
- E-AGCH Info	Not Present	Rel-7	RCS7-364
- CHOICE mode	TDD	Rel-7	RCS7-365
- E-HICH information	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
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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 specification mode	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
- 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

Information Element	Value/remark	Version	Index
- 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	
- 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	

Information Element	Value/remark	Version	Index
- 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	
- 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	

Information Element	Value/remark	Version	Index
- 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	10	RCS3-214	
- Transport channel identity	Not Present	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	
- 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	Computed Gain Factors(The last TFC is set to Signalled Gain Factors)	RCS3-249	
- CHOICE Gain Factors	0, Integer(0.. 3)	RCS3-250	
- Reference TFC ID		RCS3-251	
- CHOICE mode	TDD	RCS3-252	
- TFC subset	Not present Default value is the complete existing set of transport format combinations	RCS3-253	
		RCS3-254	
		RCS3-255	
		RCS3-256	
		RCS3-257	

Information Element	Value/remark	Version	Index
- TFC subset list - Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TBs and TTI lists - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute	Not present DCH 5 Dedicated transport channels According to clause 6 for standalone 13.6 kbps signalling radio bearer (This IE is repeated for TFI number) According to clause 6 for standalone 13.6 kbps signalling radio bearer Reference to clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set	RCS3-258 RCS3-259 RCS3-260 RCS3-261 RCS3-262 RCS3-263 RCS3-264 RCS3-265 RCS3-266 RCS3-267 RCS3-268 RCS3-269 RCS3-270 RCS3-271 RCS3-272 RCS3-273 RCS3-274 RCS3-275 RCS3-276 RCS3-277 RCS3-278	
- CRC size - DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information - DL TFCS Identity - TFCS ID - Shared Channel Indicator - CHOICE DL parameters - UL DCH TFCS Identity - Shared Channel Indicator - Added or Reconfigured TrCH information list - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL Transport channel identity - DCH quality target - BLER Quality value Frequency info Maximum allowed UL TX power CHOICE channel requirement Downlink information common for all radio links Downlink information for each radio link list	Reference to clause 6.10 Parameter Set Not Present TDD 1 FALSE Same as UL 1 FALSE DCH 10 Same as UL DCH 5 -63 (-6.3) Not Present Not Present Default value is the existing maximum UL TX power Not present Not present Not present	RCS3-279 RCS3-280 RCS3-281 RCS3-282 RCS3-283 RCS3-284 RCS3-285 RCS3-286 RCS3-287 RCS3-288 RCS3-289 RCS3-290 RCS3-291 RCS3-292 RCS3-293 RCS3-294 RCS3-295 RCS3-296 RCS3-297 RCS3-298 RCS3-299 RCS3-300 RCS3-301 RCS3-302 RCS3-303	

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH) (1.28 Mcps TDD)

Information Element	Value/remark	Version	Index
Message Type Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST message	RCS1-001 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 - SRNC identity - S-RNTI	0000 0000 0001B 0000 0000 0000 0001B	RCS1-005 RCS1-006 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	

Information Element	Value/remark	Version	Index
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
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	2 RBMuxOptions		RCS1-025
- Information for each multiplexing option	Not Present		RCS1-026
- RLC logical channel mapping indicator	1		RCS1-027
- Number of RLC logical channels	DCH		RCS1-028
- Uplink transport channel type			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
- 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	No Discard		RCS1-061
- CHOICE SDU discard mode	15		RCS1-062
- MAX_DAT	32		RCS1-063
- Transmission window size	500		RCS1-064
- Timer_RST	1		RCS1-065
- Max_RST			RCS1-066
- Polling info	200		RCS1-067
- Timer_poll_prohibit	200		RCS1-068
- Timer_poll	Not present		RCS1-069
- Poll_PDU	1		RCS1-070
- Poll_SDU	TRUE		RCS1-071
- Last transmission PDU poll	TRUE		RCS1-072
- Last retransmission PDU poll	TRUE		RCS1-073
- Poll_Window	99		RCS1-074

Information Element	Value/remark	Version	Index
- 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
- 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
- DL_DSCH Transport channel identity	Not Present		RCS1-113
- DL_HS-DSCH MAC-d flow identity	Not Present		RCS1-114
- Logical channel identity	2		RCS1-115
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)		RCS1-116
- RB identity	3		RCS1-117
- CHOICE RLC info type	RLC info		RCS1-118
- CHOICE Uplink RLC mode	AM RLC		RCS1-119
- Transmission RLC discard	No Discard		RCS1-120
- CHOICE SDU discard mode	15		RCS1-121
- MAX_DAT	32		RCS1-122
- Transmission window size	500		RCS1-123
- Timer_RST	1		RCS1-124
- Max_RST	1		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_Window	99		RCS1-133
- Timer_poll_periodic	Not Present		RCS1-134
- CHOICE Downlink RLC mode	AM RLC		RCS1-135
- In-sequence delivery	TRUE		RCS1-136
- Receiving window size	32		RCS1-137
- Downlink RLC status info			RCS1-138
- Timer_status_prohibit	200		RCS1-139
- Timer_EPC	Not Present		RCS1-140
- Missing PDU indicator	TRUE		RCS1-141

Information Element	Value/remark	Version	Index
- Timer_STATUS_periodic	Not Present		RCS1-142
- RB mapping info			RCS1-143
- Information for each multiplexing option	2 RBMuxOptions		RCS1-144
- RLC logical channel mapping indicator	Not Present		RCS1-145
- Number of RLC logical channels	1		RCS1-146
- Uplink transport channel type	DCH		RCS1-147
- UL Transport channel identity	5		RCS1-148
- Logical channel identity	3		RCS1-149
- CHOICE RLC size list	Configure		RCS1-150
- MAC logical channel priority	3		RCS1-151
- Downlink RLC logical channel info			RCS1-152
- Number of RLC logical channels	1		RCS1-153
- Downlink transport channel type	DCH		RCS1-154
- DL DCH Transport channel identity			RCS1-155
- Transport channel identity	10		RCS1-156
- DL DSCH Transport channel identity	Not Present		RCS1-157
- DL HS-DSCH MAC-d flow identity	Not Present		RCS1-158
- Logical channel identity	3		RCS1-159
- RLC logical channel mapping indicator	Not Present		RCS1-160
- Number of RLC logical channels	1		RCS1-161
- Uplink transport channel type	RACH		RCS1-162
- UL Transport channel identity	Not Present		RCS1-163
- Logical channel identity	3		RCS1-164
- CHOICE RLC size list	Explicit List		RCS1-165
- RLC size index	Reference to clause 6 Parameter Set		RCS1-166
- MAC logical channel priority	3		RCS1-167
- Downlink RLC logical channel info			RCS1-168
- Number of RLC logical channels	1		RCS1-169
- Downlink transport channel type	FACH		RCS1-170
- DL DCH Transport channel identity	Not Present		RCS1-171
- DL DSCH Transport channel identity	Not Present		RCS1-172
- DL HS-DSCH MAC-d flow identity	Not Present		RCS1-173
- 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	No discard		RCS1-179
- CHOICE SDU discard mode	15		RCS1-180
- MAX_DAT			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
- Poll_SDU	1		RCS1-188
- Last transmission PDU poll	TRUE		RCS1-189
- Last retransmission PDU poll	TRUE		RCS1-190
- Poll_Window	99		RCS1-191
- Timer_poll_periodic	Not Present		RCS1-192
- CHOICE Downlink RLC mode	AM RLC		RCS1-193
- In-sequence delivery	TRUE		RCS1-194
- Receiving window size	32		RCS1-195
- Downlink RLC status info			RCS1-196
- Timer_status_prohibit	200		RCS1-197
- Timer_EPC	Not Present		RCS1-198
- Missing PDU indicator	TRUE		RCS1-199
- Timer_STATUS_periodic	Not Present		RCS1-200
- RB mapping info			RCS1-201
- Information for each multiplexing option	2 RBMuxOptions		RCS1-202
- RLC logical channel mapping indicator	Not Present		RCS1-203
- Number of RLC logical channels	1		RCS1-204
- Uplink transport channel type	DCH		RCS1-205
- UL Transport channel identity	5		RCS1-206
- Logical channel identity	4		RCS1-207
			RCS1-208

Information Element	Value/remark	Version	Index
- CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Transport channel identity - DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity	Configure 4 1 DCH 10 Not Present Not Present 4 Not Present 1 RACH Not Present 4 Explicit List Reference to clause 6 Parameter Set 4 1 FACH Not Present		RCS1-209 RCS1-210 RCS1-211 RCS1-212 RCS1-213 RCS1-214 RCS1-215 RCS1-216 RCS1-217 RCS1-218 RCS1-219 RCS1-220 RCS1-221 RCS1-222 RCS1-223 RCS1-224 RCS1-225 RCS1-226 RCS1-227 RCS1-228 RCS1-229 RCS1-230
- DL DSCH Transport channel identity - DL HS-DSCH MAC-d flow identity - Logical channel identity - UL Transport channel information for all transport channels - PRACH TFCS - CHOICE mode -Individual UL CCTrCH information - UL TFCS Identity - TFCS ID - Shared Channel Indicator - UL TFCS - CHOICE TFCI signalling - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - TFC subset - TFC subset list - DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode -Individual DL CCTrCH information - DL TFCS Identity - TFCS ID - Shared Channel Indicator - CHOICE DL parameters - UL DCH TFCS Identity - Shared Channel Indicator Frequency info Maximum allowed UL TX power	Not Present Not Present 4 Not Present TDD 1 FALSE Normal Complete reconfiguration Configured, Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set Reference to clause 6.11.5.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 0, Integer(0.. 3) TDD Not present. Default value is the complete existing set of transport format combinations Not present Not Present TDD 1 FALSE Same as UL 1 FALSE Not Present Not Present. Default value is the existing maximum UL TX power		RCS1-231 RCS1-232 RCS1-233 RCS1-234 RCS1-235 RCS1-236 RCS1-237 RCS1-238 RCS1-239 RCS1-240 RCS1-241 RCS1-242 RCS1-243 RCS1-244 RCS1-245 RCS1-246 RCS1-247 RCS1-248 RCS1-249 RCS1-250 RCS1-251 RCS1-252 RCS1-253 RCS1-254 RCS1-255 RCS1-256 RCS1-257 RCS1-258 RCS1-259 RCS1-260 RCS1-261 RCS1-262 RCS1-263 RCS1-264 RCS1-265 RCS1-266

Information Element	Value/remark	Version	Index
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

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH) (7.68 Mcps TDD)

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	Arbitrarily selects an integer between 0 and 3		RCS7-003
Activation time	Not Present(Now)		RCS7-004
New U-RNTI			RCS7-005
- SRNC identity	0000 0000 0001B		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	Rel-6	RCS7-009
CHOICE mode	TDD	Rel-7	RCS7-010
- New E-RNTI	Not Present	Rel-7	RCS7-011
RRC State Indicator	CELL_FACH		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 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

Information Element	Value/remark	Version	Index
- 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	No Discard	RCS7-064	
- CHOICE SDU discard mode	15	RCS7-065	
- MAX_DAT	32	RCS7-066	
- Transmission window size	500	RCS7-067	
- Timer_RST	1	RCS7-068	
- Max_RST	200	RCS7-069	
- Polling info	200	RCS7-070	
- Timer_poll_prohibit	200	RCS7-071	
- Timer_poll	Not present	RCS7-072	
- Poll_PDU	1	RCS7-073	
- Poll_SDU	TRUE	RCS7-074	
- Last transmission PDU poll	TRUE	RCS7-075	
- Last retransmission PDU poll	99	RCS7-076	
- Poll_Window	Not Present	RCS7-077	
- Timer_poll_periodic	AM RLC	RCS7-078	
- CHOICE Downlink RLC mode	TRUE	RCS7-079	
- In-sequence delivery	32	RCS7-080	
- Receiving window size	200	RCS7-081	
- Downlink RLC status info	Not Present	RCS7-082	
- Timer_status_prohibit	TRUE	RCS7-083	
- Timer_EPC	TRUE	RCS7-084	
- Missing PDU indicator	Not Present	RCS7-085	
- Timer_STATUS_periodic	Not Present	RCS7-086	
- RB mapping info	2 RBMuxOptions	RCS7-087	
- Information for each multiplexing option	Not Present	RCS7-088	
- RLC logical channel mapping indicator	1	RCS7-089	
- Number of RLC logical channels	DCH	RCS7-090	
- Uplink transport channel type	5	RCS7-091	
- UL Transport channel identity	2	RCS7-092	
- Logical channel identity	Configure	RCS7-093	
- CHOICE RLC size list	2	RCS7-094	
- MAC logical channel priority	1	RCS7-095	
- Downlink RLC logical channel info	DCH	RCS7-096	
- Number of RLC logical channels	10	RCS7-097	
- Downlink transport channel type	Not Present	RCS7-098	
- DL DCH Transport channel identity	Not Present	RCS7-099	
- Transport channel identity	2	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	1	RCS7-112	
- Number of RLC logical channels	FACH	RCS7-113	
- Downlink transport channel type	Not Present	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	

Information Element	Value/remark	Version	Index
- CHOICE Uplink RLC mode	AM RLC		RCS7-122
- Transmission RLC discard	No Discard		RCS7-123
- CHOICE SDU discard mode			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
- 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	10		RCS7-158
- Transport channel identity	Not Present		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

Information Element	Value/remark	Version	Index
- 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	
- 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 TFCI signalling	Normal	RCS7-244	
- TFCI Field 1 Information	Complete reconfiguration	RCS7-245	
- CHOICE TFCS representation		RCS7-246	
- TFCS complete reconfiguration		RCS7-247	
information			
- 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	

Information Element	Value/remark	Version	Index
- 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
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
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
UE radio access capability extension	Not checked
UE system specific capability	Not checked

Contents of SECURITY MODE COMMAND message: AM

Information Element	Condition	Value/remark
Message Type		
RRC transaction identifier	A1, A2	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 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		0000000000000010B (UIA1)
- Integrity protection algorithm capability		

Information Element	Condition	Value/remark
- UIA1 - Spare Ciphering mode info		TRUE FALSE 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. Start/restart Use the same ciphering algorithm specified in "ciphering algorithm capability" IE in this message. Not Present
- Ciphering mode command - Ciphering algorithm		
- Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info		
- Radio bearer activation time - RB identity	1	
- RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number		Current RLC SN+2 2 Current RLC SN+2 3 Current RLC SN + 2 4 Current RLC SN + 2
Integrity protection mode info		
- Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number		Start Not Present UIA1 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 security capability		GSM 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	
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.
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 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 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 mode		TDD	
- Timeslot Number		0	
- Midamble shift and burst type			
- CHOICE TDD option		3.84 Mcps	
- CHOICE Burst Type		MBSFN Burst Type	Rel-7
- 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 mode		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 MBSFN services notification		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 mode		TDD	
- Timeslot Number		1	
- Midamble shift and burst type			
- CHOICE TDD option		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 mode		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 MBSFN services notification		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 mode		TDD	
- Timeslot Number		0	
- Midamble shift and burst type			
- CHOICE TDD option		7.68 Mcps	
- CHOICE Burst Type		MBSFN Burst Type	Rel-7

Information Element	Condition	Value/remark	Version
- 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 mode		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 MBSFN services notification		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 PLMN identity	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 mode	TDD		
- Transmission Time Interval	Not Present		
- CHOICE Logical Channel List	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 mode	TDD		
- Transmission Time Interval	Not Present		
- CHOICE Logical Channel List	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 (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 mode	1.28/3.84 Mcps TDD		
- Common timeslot info MBMS			
- 2 nd 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 TDD option	3.84 Mcps		
- Timeslot number	1		
- TFCI existence	TRUE		
- Midamble Shift and burst type			
- CHOICE TDD option	3.84 Mcps TDD		
- CHOICE Burst Type	MBSFN Burst Type		Rel-7
- no data			Rel-7
- CHOICE TDD option	3.84Mcps TDD		

Information Element	Condition	Value/remark	Version
- no data			
- First timeslot channelisation codes			
- 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 more timeslots	A2	Timeslot list	
- Additional timeslot list			
- CHOICE parameters		Same as last	
- Timeslot number			
- CHOICE TDD option		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 mode		1.28/3.84 Mcps TDD	
- Common timeslot info MBMS			
- 2 nd 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 TDD option		3.84 Mcps	
- Timeslot number		4	
- TFCI existence		TRUE	
- Midamble Shift and burst type			
- CHOICE TDD option		3.84 Mcps TDD	
- CHOICE Burst Type		MBSFN Burst Type	Rel-7
- no data			Rel-7
- CHOICE TDD option		3.84 Mcps TDD	
- no data			
- First timeslot channelisation codes			
- 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 more timeslots	A2	Timeslot list	
- Additional timeslot list			
- CHOICE parameters		Same as last	
- Timeslot number			
- CHOICE TDD option		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 (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 nd 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 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 more timeslots	A2	Timeslot list	
- Additional timeslot list			
- CHOICE parameters		Same as last	
- Timeslot number			
- CHOICE TDD option		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 mode		1.28/3.84 Mcps TDD	
- Common timeslot info MBMS			
- 2 nd 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 TDD option		1.28 Mcps	
- Timeslot number		4	
- TFCI existence		TRUE	
- Midamble Shift and burst type			
- CHOICE TDD option		1.28 Mcps TDD	
- Midamble Allocation Mode		Common midamble	
- Midamble configuration		2	
- CHOICE TDD option		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 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 more timeslots	A2	Timeslot list	
- Additional timeslot list			
- CHOICE parameters		Same as last	
- Timeslot number			
- CHOICE TDD option		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 mode		TDD	
- Transmission Time Interval		Not Present	
- CHOICE Logical Channel List		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 mode		TDD	
- Transmission Time Interval		Not Present	
- CHOICE Logical Channel List		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 (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 mode		7.68 Mcps TDD	
- Common timeslot info MBMS			
- 2 nd 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 TDD option		7.68 Mcps option	
Timeslot number		1	
- TFCI existence		TRUE	
- Midamble Shift and burst type			
- CHOICE TDD option		7.68 Mcps TDD	
- CHOICE Burst Type		MBSFN Burst Type	
- no data		Default	
- CHOICE TDD option		7.68Mcps TDD	

Information Element	Condition	Value/remark	Version
- 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 more timeslots	A2	Timeslot list	
- Additional timeslot list			
- CHOICE parameters		Same as last	
- Timeslot number			
- CHOICE TDD option		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 mode		7.68 Mcps TDD	
- Common timeslot info MBMS			
- 2 nd 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 TDD option		7.68 Mcps option	
- Timeslot number		4	
- TFCI existence		TRUE	
- Midamble Shift and burst type			
- CHOICE TDD option		7.68 Mcps TDD	
- CHOICE Burst Type		MBSFN Burst Type	
- no data		Default	
- CHOICE TDD option		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 more timeslots	A2	Timeslot list	
- Additional timeslot list			
- CHOICE parameters		Same as last	
- Timeslot number			
- CHOICE TDD option		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
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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)

9.2 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 mode	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 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		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-003
- message authentication code		SS provides the value of this IE, from its internal counter.		RBST-004
- RRC message sequence number		Not Present		RBST-005
Integrity protection mode info		Not Present		RBST-006
Ciphering mode info		(256+CFN-(CFN MOD 8 + 8))MOD 256		RBST-007
Activation time		Not Present		RBST-008
New U-RNTI		Not Present		RBST-009
New C-RNTI		Not Present		RBST-010
New DSCH-RNTI		Not Present		RBST-011
New H-RNTI		Not Present	R99 and Rel-4 only	RBST-012
New Primary E-RNTI		Not Present	Rel-5	RBST-013
New Secondary E-RNTI		Not Present	Rel-6	RBST-014
RRC State indicator		CELL_DCH	Rel-6	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		0000 0001B		RBST-022
- RAB info		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBST-023
- RAB identity		CS domain		RBST-025
- CN domain identity		Not Present		RBST-026
- NAS Synchronization Indicator		UseT314		RBST-027
- Re-establishment timer				RBST-028
- RB information to setup list				RBST-029
- RB information to setup				RBST-030
- RAB information for setup list	A6, A7, A8, A9			RBST-031
- RAB information for setup		0000 0101B		RBST-032
- RAB info		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBST-033
- RAB identity		PS domain		RBST-034
- CN domain identity		Not Present		RBST-035
- NAS Synchronization Indicator		UseT315		RBST-036
- Re-establishment timer				RBST-037
- RB information to setup list				RBST-038
- RB information to setup				RBST-039
- RB identity	A1	10	Rel-5	RBST-040
- PDCP info		Not Present		RBST-041
- CHOICE RLC info type		RLC info		RBST-042
- CHOICE Uplink RLC mode		TM RLC		RBST-043
- Transmission RLC discard		Not Present		RBST-044
- Segmentation indication		FALSE		RBST-045
- CHOICE Downlink RLC mode		TM RLC		RBST-046
- Segmentation indication		FALSE		RBST-047
- One sided RLC re-establishment		FALSE		RBST-048
- RB mapping info		FALSE		RBST-049
- Information for each multiplexing				RBST-050
				RBST-051

Information Element	Condition	Value/remark	Version	Index
option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - 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 - Logical channel identity		Not Present 1 DCH 1 Not Present Configured 7 1 DCH 6 Not Present Not Present		RBST-052 RBST-053 RBST-054 RBST-055 RBST-056 RBST-057 RBST-058 RBST-059 RBST-060 RBST-061 RBST-062 RBST-063 RBST-064
- RB identity - PDCP info - 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	A3, A4, A5	10 Not Present RLC info AM RLC No Discard 15 Selected with Total RLC AM Buffer Size 500 4 400 400 Not Present 1 TRUE TRUE 99 Not Present AM RLC		RBST-065 RBST-066 RBST-067 RBST-068 RBST-069 RBST-070 RBST-071 RBST-072 RBST-073 RBST-074 RBST-075 RBST-076 RBST-077 RBST-078 RBST-079 RBST-080 RBST-081 RBST-082 RBST-083 RBST-084
- DL RLC PDU size - DL RLC PDU size - DL RLC PDU size	A3 A4 A5	1280 bits 2880 bits 3840 bits	Rel-5 Rel-5 Rel-5	RBST-085 RBST-086 RBST-087
option - 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 indicator - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel	A3, A4, A5	TRUE Selected with Total RLC AM Buffer Size 330 Not Present TRUE Not Present FALSE Not Present 1 DCH 1 Not Present Configured 7 1 DCH 6	Rel-5	RBST-088 RBST-089 RBST-090 RBST-091 RBST-092 RBST-093 RBST-094 RBST-095 RBST-096 RBST-097 RBST-098 RBST-099 RBST-100 RBST-101 RBST-102 RBST-103 RBST-104 RBST-105 RBST-106 RBST-107 RBST-108

Information Element	Condition	Value/remark	Version	Index
identity - DL DSCH Transport channel		Not Present		RBST-109
identity - Logical channel identity		Not Present		RBST-110
- RB identity - PDCP info - 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	A6, A7, A8, A9	20 Not present RLC info AM RLC No Discard 15 Selected with Total RLC AM Buffer Size 500 4 400 400 Not Present 1 TRUE TRUE 99 Not Present AM RLC		RBST-111 RBST-112 RBST-113 RBST-114 RBST-115 RBST-116 RBST-117 RBST-118 RBST-119 RBST-120 RBST-121 RBST-122 RBST-123 RBST-124 RBST-125 RBST-126 RBST-127 RBST-128 RBST-129 RBST-130
- DL RLC PDU size - DL RLC PDU size - DL RLC PDU size - DL RLC PDU size	A6 A7 A8 A9	1280 bits 2880 bits 3840 bits 336 bits	Rel-5 Rel-5 Rel-5 Rel-5	RBST-131 RBST-132 RBST-133 RBST-134
- 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 option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel	A6, A7, A8, A9	TRUE Selected with Total RLC AM Buffer Size 330 Not Present TRUE Not Present FALSE 2 RBMuxOptions Not Present 1 DCH 1 Not Present Configured 8 1 DCH 6	Rel-5	RBST-135 RBST-136 RBST-137 RBST-138 RBST-139 RBST-140 RBST-141 RBST-142 RBST-143 RBST-144 RBST-145 RBST-146 RBST-147 RBST-148 RBST-149 RBST-150 RBST-151 RBST-152 RBST-153 RBST-154 RBST-155 RBST-156 RBST-157 RBST-158 RBST-159 RBST-160 RBST-161 RBST-162 RBST-163

Information Element	Condition	Value/remark	Version	Index
<ul style="list-style-type: none"> - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels <ul style="list-style-type: none"> - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 		Reference to clause 6 Parameter Set 8 1 FACH Not Present Not Present 7		RBST-164 RBST-165 RBST-166 RBST-167 RBST-168 RBST-169 RBST-170 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 Downlink counter synchronization info PDCP ROHC target mode UL Transport channel information for all transport channels <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size <ul style="list-style-type: none"> - CTFC information - 2bit CTFC -Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m} - 2bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m} - 2bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m} - 2bit CTFC - Power offset Information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P_{p-m} 		Not Present Not Present Not Present Not Present FDD Not Present Normal Complete reconfiguration 2 bit CTFC 4 TFCs 0 Computed Gain Factors 0 FDD Not Present 2 Computed Gain Factors 0 FDD Not Present 1 Computed Gain Factors 0 FDD Not Present 3 Signalled Gain Factors FDD 8 15 0 FDD Not Present Not Present	RBST-173 RBST-174 RBST-175 RBST-176 RBST-177 RBST-178 RBST-179 RBST-180 RBST-181 RBST-182 RBST-183 RBST-184 RBST-185 RBST-186 RBST-187 RBST-188 RBST-189 RBST-190 RBST-191 RBST-192 RBST-193 RBST-194 RBST-195 RBST-196 RBST-197 RBST-198 RBST-199 RBST-200 RBST-201 RBST-202 RBST-203 RBST-204 RBST-205 RBST-206 RBST-207 RBST-208 RBST-209 RBST-210 RBST-211 RBST-212 RBST-213 RBST-214	
Deleted UL TrCH information list				RBST-214
Added or Reconfigured TrCH information list <ul style="list-style-type: none"> - Added or Reconfigured UL TrCH information <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type 	A1	1 DCH 1 Dedicated transport channels		RBST-215 RBST-216 RBST-217 RBST-218 RBST-219 RBST-220

Information Element	Condition	Value/remark	Version	Index
- Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		244 bits 2 Not Present 0 Not Present 1 ALL 20 Convolutional 1/3 256 16		RBST-221 RBST-222 RBST-223 RBST-224 RBST-225 RBST-226 RBST-227 RBST-228 RBST-229 RBST-230 RBST-231 RBST-232 RBST-233 RBST-234
Added or Reconfigured TrCH information list	A3, A4, A5, A6, A7, A8, A9	1		RBST-235
- Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		DCH 1 240 bits 2 Not Present 0 Not Present 1 ALL 20 Convolutional 1/3 256 16		RBST-236 RBST-237 RBST-238 RBST-239 RBST-240 RBST-241 RBST-242 RBST-243 RBST-244 RBST-245 RBST-246 RBST-247 RBST-248 RBST-249 RBST-250 RBST-251 RBST-252 RBST-253 RBST-254
CHOICE mode DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters Deleted DL TrCH information list	A1, A3, A4, A5, A6, A7, A8	Not Present Not Present FDD Same as UL Not Present		RBST-255 RBST-256 RBST-257 RBST-258 RBST-259 RBST-260
CHOICE mode DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information - 4bit CTFC - Power offset Information - CHOICE Gain Factors	A9	Not Present Not Present FDD DL DCH TFCS Normal Complete reconfiguration 4 bit CTFC 6 TFCs 0 Computed Gain Factors		RBST-261 RBST-262 RBST-263 RBST-264 RBST-265 RBST-266 RBST-267 RBST-268 RBST-269 RBST-270 RBST-271 RBST-272 RBST-273 RBST-274 RBST-275

Information Element	Condition	Value/remark	Version	Index
- Reference TFC ID - CHOICE mode - Power offset Pp-m - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset Pp-m		0 FDD Not Present 3 Computed Gain Factors 0 FDD Not Present 1 Computed Gain Factors 0 FDD Not Present 4 Computed Gain Factors 0 FDD Not Present 2 Computed Gain Factors 0 FDD Not Present 5 Signalled Gain Factors FDD 8 15 0 FDD Not Present Not Present		RBST-276 RBST-277 RBST-278 RBST-279 RBST-280 RBST-281 RBST-282 RBST-283 RBST-284 RBST-285 RBST-286 RBST-287 RBST-288 RBST-289 RBST-290 RBST-291 RBST-292 RBST-293 RBST-294 RBST-295 RBST-296 RBST-297 RBST-298 RBST-299 RBST-300 RBST-301 RBST-302 RBST-303 RBST-304 RBST-305 RBST-306 RBST-307 RBST-308 RBST-309 RBST-310 RBST-311 RBST-312
Deleted DL TrCH information list				
Added or Reconfigured TrCH information list	A1	1 DCH 6 Same as UL DCH 1 -20 (-2.0)		RBST-313 RBST-314 RBST-315 RBST-316 RBST-317 RBST-318 RBST-319 RBST-320 RBST-321
Added or Reconfigured TrCH information list	A3, A6	1 DCH 6 Explicit Dedicated transport channels 1280 bits 2 Not Present 0 Not Present 1 ALL		RBST-322 RBST-323 RBST-324 RBST-325 RBST-326 RBST-327 RBST-328 RBST-329 RBST-330 RBST-331 RBST-332 RBST-333 RBST-334 RBST-335 RBST-336 RBST-337

Information Element	Condition	Value/remark	Version	Index
information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - DCH quality target - BLER Quality value 		20 Turbo 256 16 -20 (-2.0)		RBST-338 RBST-339 RBST-340 RBST-341 RBST-342 RBST-343
Added or Reconfigured TrCH information list <ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - DCH quality target - BLER Quality value 	A4, A7	1 DCH 6 Explicit Dedicated transport channels 2880 bits 2 Not Present 0 Not Present 1 ALL 20 Turbo 256 16 -20 (-2.0)		RBST-344 RBST-345 RBST-346 RBST-347 RBST-348 RBST-349 RBST-350 RBST-351 RBST-352 RBST-353 RBST-354 RBST-355 RBST-356 RBST-357 RBST-358 RBST-359 RBST-360 RBST-361 RBST-362 RBST-363 RBST-364 RBST-365
Added or Reconfigured TrCH information list <ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information <ul style="list-style-type: none"> - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - DCH quality target - BLER Quality value 	A5, A8	1 DCH 6 Explicit Dedicated transport channels 3840 bits 2 Not Present 0 Not Present 1 ALL 10 Turbo 256 16 -20 (-2.0)		RBST-366 RBST-367 RBST-368 RBST-369 RBST-370 RBST-371 RBST-372 RBST-373 RBST-374 RBST-375 RBST-376 RBST-377 RBST-378 RBST-379 RBST-380 RBST-381 RBST-382 RBST-383 RBST-384 RBST-385 RBST-386 RBST-387
Added or Reconfigured TrCH information list <ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS 	A9	1 DCH 6 Explicit		RBST-388 RBST-389 RBST-390 RBST-391 RBST-392 RBST-393

Information Element	Condition	Value/remark	Version	Index
- CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - DCH quality target - BLER Quality value		Dedicated transport channels 336 bits 3 Not Present 0 Not Present 1 Not Present 4 ALL 20 Turbo 143 16 -20 (-2.0)		RBST-394 RBST-395 RBST-396 RBST-397 RBST-398 RBST-399 RBST-400 RBST-401 RBST-402 RBST-403 RBST-404 RBST-405 RBST-406 RBST-407 RBST-408 RBST-409 RBST-410 RBST-411
Frequency info	A1, A3, A4, A5, A6, A7, A8, A9	Not Present		RBST-412
Multi-frequency Info DTX-DRX timing information DRX Information HS-SCCH less Information MIMO parameters Maximum allowed UL TX power CHOICE channel requirement		Not Present Not Present Not Present Not Present Not Present 33dBm Uplink DPCH info	Rel-7 Rel-7 Rel-7 Rel-7 Rel-7	RBST-413 RBST-414 RBST-415 RBST-416 RBST-417 RBST-418 RBST-419
Uplink DPCH info - Uplink DPCH power control info - CHOICE mode - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Δ_{ACK} - Δ_{NACK} - Ack-Nack repetition factor - CHOICE mode - Scrambling code type - Scrambling code number - Number of DPDCH		FDD -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active 1 frame 7 frames Algorithm1 0 (1dB) Not Present Not Present Not Present Not Present FDD Long 0 (0 to 16777215) 1	Rel-5 and earlier Rel-6	RBST-420 RBST-421 RBST-422 RBST-423 RBST-424 RBST-425 RBST-426 RBST-427 RBST-428 RBST-429 RBST-430 RBST-431 RBST-432 RBST-433 RBST-434
- spreading factor	A1, A3, A4, A5, A6, A7, A8, A9	64		RBST-435
- TFCI existence - Number of FBI bit - Puncturing Limit CHOICE Mode - Downlink PDSCH information	A1, A3, A4, A5, A6, A7, A8, A9	TRUE Not Present(0) 1 FDD Not Present	R99 and Rel-4 only R99 and Rel-4 only Rel-6 Rel-5	RBST-436 RBST-437 RBST-438 RBST-439 RBST-440
E-DCH Info Downlink HS-PDSCH Information Downlink information common for all radio links		Not Present Not Present		RBST-441 RBST-442 RBST-443

Information Element	Condition	Value/remark	Version	Index
- Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - DPC mode - CHOICE mode - Power offset $P_{\text{Pilot-DPDCH}}$ - DL rate matching restriction information		Maintain Not Present FDD 0 (single) FDD 0 Not Present		RBST-444 RBST-445 RBST-446 RBST-447 RBST-448 RBST-449 RBST-450 RBST-451 RBST-452
- Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - Number of bits for Pilot bits	A1	128 Fixed TRUE 128 8		RBST-453 RBST-454 RBST-455 RBST-456 RBST-457
- Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF	A3, A6, A9	32 Fixed TRUE 32		RBST-458 RBST-459 RBST-460 RBST-461
- Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF	A4, A7	16 Fixed TRUE 16		RBST-462 RBST-463 RBST-464 RBST-465
- Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF	A5, A8	8 Fixed TRUE 8		RBST-466 RBST-467 RBST-468 RBST-469
- CHOICE mode - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value - MAC-hs reset indicator Downlink information per radio link list - Downlink information for each radio link - CHOICE mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Downlink DPCH info for each RL - CHOICE mode - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code	A1, A3, A4, A5, A6, A7, A8, A9	FDD Not Present None Not Present Not Present Not Present FDD Reference to clause 6.1 "Default settings (FDD)" Not Present Not Present FALSE FDD Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present Not Present	R99 and Rel-4 only Rel-5 R99 and Rel-4 only R99 and Rel-4 only Rel-5	RBST-470 RBST-471 RBST-472 RBST-473 RBST-474 RBST-475 RBST-476 RBST-477 RBST-478 RBST-479 RBST-480 RBST-481 RBST-482 RBST-483 RBST-484 RBST-485 RBST-486 RBST-487 RBST-488 RBST-489 RBST-490
- Spreading factor - Code number	A1	128 96		RBST-491 RBST-492
- Spreading factor - Code number	A3, A6, A9	32 24		RBST-493 RBST-494
- Spreading factor	A4, A7	16		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	R99 and 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+CFN-(CFN MOD 8 + 8))MOD 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		RBSP-012
New Primary E-RNTI	Not Present	Rel-5	RBSP-013
New Secondary E-RNTI	Not Present	Rel-6	RBSP-014
RRC State indicator	CELL_DCH	Rel-6	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		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	Rel-5	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	Complete reconfiguration		RBSP-099
- CHOICE TFCS representation	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set.		RBSP-100
- TFCS complete reconfigure information	This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set		RBSP-101
- CHOICE CTFC Size	Reference to clause 6.10.2.4 Parameter Set		RBSP-102
- CTFC information	Computed Gain Factors(The last TFC is set to Signalled Gain Factors)		RBSP-103
- CTFC	11 (below 64 kbps)		RBSP-104
- Power offset information	9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)		RBSP-105
- CHOICE Gain Factors	15		RBSP-106
- Gain factor β_c	(Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)		RBSP-107
- Gain factor β_d	0		RBSP-108
- Reference TFC ID	FDD		RBSP-109
- CHOICE mode	Not Present		RBSP-110
- Power offset P p-m	Not Present		RBSP-111
Deleted UL TrCH information list	1		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	Dedicated transport channels		RBSP-117
- CHOICE Transport channel type	Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBSP-118
- Dynamic Transport format information	Not Present		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	Reference to clause 6.10 Parameter Set		RBSP-122
- Number of Transport blocks	All		RBSP-123
- CHOICE Logical channel list	Reference to clause 6.10 Parameter Set		RBSP-124
- Semi-static Transport Format information	Reference to clause 6.10 Parameter Set		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	Dedicated transport channels		RBSP-133
- CHOICE Transport channel type	Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBSP-134
- Dynamic Transport format information	Not Present		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	Reference to clause 6.10 Parameter Set		RBSP-138
- Number of Transport blocks	All		RBSP-139
- CHOICE Logical channel list	Reference to clause 6.10 Parameter Set		RBSP-140
- Semi-static Transport Format information	Reference to clause 6.10 Parameter Set		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 TFCI Signalling	Normal		RBSP-153
- TFCI Field 1 Information			RBSP-154
- CHOICE TFCS representation	Complete reconfiguration		RBSP-155
- TFCS complete reconfigure	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set.		RBSP-156
- CHOICE CTFC Size	This IE is repeated for TFC numbers and reference to clause 6.10.2.4		RBSP-157
- CTFC information	Reference to clause 6.10.2.4 Parameter Set		RBSP-158
- CTFC	Not Present		RBSP-159
- Power offset information			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	Dedicated transport channel		RBSP-173
- CHOICE Transport channel type			RBSP-174
- Dynamic transport format information	Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)		RBSP-175
- RLC Size			RBSP-176
- Number of TBs and TTI List			RBSP-177
- Dynamic transport format information			RBSP-178
- Transmission Time Interval			RBSP-179
- Number of Transport blocks			RBSP-180
- CHOICE Logical channel list			RBSP-181
- Semi-static Transport Format information	All		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
- DPCCH 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
- Δ_{ACK}	Not Present	Rel-5	RBSP-206
- Δ_{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 Rel-4 only	RBSP-217
E-DCH Info	Not Present	Rel-6	RBSP-218
- Downlink PDSCH information	Not Present	R99 and 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	Maintain		RBSP-222
- Timing indicator	Not Present		RBSP-223
- CFN-targetSFN frame offset			RBSP-224
- Downlink DPCH power control information	FDD		RBSP-225
- CHOICE mode	0 (single)		RBSP-226
- DPC mode	FDD		RBSP-227
- CHOICE mode	0		RBSP-228
- Power offset $P_{Pilot-DPDCH}$			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		RBSP-238
- Default DPCH Offset Value	Not Present	R99 and Rel-4 only	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	FDD		RBSP-243
- CHOICE mode			RBSP-244
- Primary CPICH info	Reference to clause 6.1 "Default settings (FDD)"		RBSP-245
- Primary scrambling code			RBSP-246
- PDSCH with SHO DCH info	Not Present	R99 and Rel-4 only	RBSP-247
- PDSCH code mapping	Not Present	R99 and Rel-4 only	RBSP-248
- Downlink DPCH info for each RL	FDD		RBSP-249
- CHOICE mode	Primary CPICH may be used		RBSP-250
- Primary CPICH usage for channel estimation			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	Not present		RBSP-254
- Secondary scrambling code	Reference to clause 6.10 Parameter Set		RBSP-255
- Spreading factor	Depends upon radio bearer used.		RBSP-256
- Code number	No change		RBSP-257
- Scrambling code change	0		RBSP-258
- TPC combination index	Not Present	R99 and	RBSP-259
- SSDT Cell Identity			RBSP-260

Information Element	Value/remark	Version	Index
- Closed loop timing adjustment mode - SCCPCH information for FACH	Not Present Not Present	Rel-4 only R99 and Rel-4 only	RBSP-261 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+CFN-(CFN MOD 8 + 8))MOD 256		RBSC-008
New U-RNTI	Not Present		RBSC-009
New C-RNTI	Not Present		RBSC-010
New DSCH-RNTI	Not Present		RBSC-011
New H-RNTI	Not Present		RBSC-012
New Primary E-RNTI	Not Present		RBSC-013
New Secondary E-RNTI	Not Present		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	0000 0001B		RBSC-023
- RAB identity	The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBSC-024
- 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	10		RBSC-029
- RB identity	Not Present		RBSC-030
- PDCP info	RLC info		RBSC-031
- CHOICE RLC info type	TM RLC		RBSC-032
- CHOICE Uplink RLC mode	Not Present		RBSC-033
- Transmission RLC discard	FALSE		RBSC-034
- Segmentation indication	TM RLC		RBSC-035
- CHOICE Downlink RLC mode	Not Present		RBSC-036
- Segmentation indication	FALSE		RBSC-037
- RB mapping info			RBSC-038
- Information for each multiplexing option	Not Present		RBSC-039
- RLC logical channel mapping indicator	1		RBSC-040
- Number of uplink RLC logical channels	DCH		RBSC-041
- Uplink transport channel type	1		RBSC-042
- UL Transport channel identity	Not Present		RBSC-043
- Logical channel identity	Configured		RBSC-044
- CHOICE RLC size list	7		RBSC-045
- MAC logical channel priority			RBSC-046
- Downlink RLC logical channel info	1		RBSC-047
- Number of downlink RLC logical			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 β_c	8		RBSC-089
- Gain factor β_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			RBSC-096
information			
- 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	Rel-7	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
- DPCCH 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
- Δ_{ACK}	Not Present	Rel-5	RBSC-159
- Δ_{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	Maintain		RBSC-175
- Timing indicator	Not Present		RBSC-176
- CFN-targetSFN frame offset			RBSC-177
- Downlink DPCH power control information	FDD		RBSC-178
- CHOICE mode	0 (single)		RBSC-179
- DPC mode	FDD		RBSC-180
- CHOICE mode	0		RBSC-181
- Power offset $P_{\text{Pilot-DPDCH}}$			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	RBS2-007	
Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256	RBS2-008	
New U-RNTI		Not Present	RBS2-009	
New C-RNTI		Not Present	RBS2-010	
New DSCH-RNTI		Not Present	R99 and Rel-4 only	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	Rel-6	RBS2-015
UTRAN DRX cycle length coefficient		Not Present	Rel-6	RBS2-016
CN information info		Not Present	Rel-6	RBS2-017
URA identity		Not Present	Rel-6	RBS2-018
CHOICE specification mode		Complete specification	Rel-6	RBS2-019
Signalling RB information to setup		Not Present	Rel-6	RBS2-020
RAB information for setup list				RBS2-021
- RAB information for setup				RBS2-022
- RAB info				RBS2-023
- RAB identity				RBS2-024
		0000 0001B		
		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		
		CS domain		RBS2-025
		Not Present		RBS2-026
		UseT314		RBS2-027
		10		RBS2-028
		Not Present		RBS2-029
		RLC info		RBS2-030
		TM RLC		RBS2-031
		Not Present		RBS2-032
		FALSE		RBS2-033
		TM RLC		RBS2-034
		FALSE		RBS2-035
		10		RBS2-036
		Not Present		RBS2-037
		1		RBS2-038
		DCH		RBS2-039
		1		RBS2-040
		DCH		RBS2-041
		1		RBS2-042
		Not Present		RBS2-043
		Configured		RBS2-044
		7		RBS2-045
		1		RBS2-046
		DCH		RBS2-047
		6		RBS2-048
channels		Not Present		RBS2-049
- Downlink transport channel type		Not Present		RBS2-050
- DL DCH Transport channel identity		Not Present		RBS2-051
- DL DSCH Transport channel identity		Not Present		RBS2-052
- Logical channel identity		Not Present		RBS2-053
RB information to reconfigure list		Not Present		RBS2-054
RB information to be affected list		Not Present		RBS2-055
Downlink counter synchronization info		Not Present		RBS2-056
UL Transport channel information for all transport channels				
- PRACH TFCS		Not Present		RBS2-057
- CHOICE mode		FDD		RBS2-058
- TFC subset		Not Present		RBS2-059
- UL DCH TFCS		Not Present		RBS2-060
- CHOICE TFCI signalling		Normal		RBS2-061
- TFCI Field 1 information		Complete reconfiguration		RBS2-062
- CHOICE TFCS representation				RBS2-063
- TFCS complete reconfigure information				RBS2-064
- CHOICE CTFC Size	A1	2 bit CTFC		RBS2-065

Information Element	Condition	Value/remark	Version	Index
- CTFC information - 2bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m}		4 TFCs 0 Computed Gain Factors 0 FDD Not Present 2		RBS2-066 RBS2-067 RBS2-068 RBS2-069 RBS2-070 RBS2-071 RBS2-072 RBS2-073 RBS2-074 RBS2-075 RBS2-076 RBS2-077 RBS2-078
- 2bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m}		Computed Gain Factors 0 FDD Not Present 1		RBS2-079 RBS2-080 RBS2-081 RBS2-082 RBS2-083 RBS2-084 RBS2-085 RBS2-086 RBS2-087 RBS2-088 RBS2-089 RBS2-090 RBS2-091 RBS2-092 RBS2-093
- 2bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m}		Computed Gain Factors 0 FDD Not Present 3		RBS2-094 RBS2-095 RBS2-096 RBS2-097 RBS2-098 RBS2-099 RBS2-100 RBS2-101 RBS2-102 RBS2-103 RBS2-104 RBS2-105 RBS2-106 RBS2-107 RBS2-108 RBS2-109 RBS2-110 RBS2-111 RBS2-112 RBS2-113 RBS2-114 RBS2-115 RBS2-116 RBS2-117 RBS2-118 RBS2-119 RBS2-120 RBS2-121 RBS2-122 RBS2-123 RBS2-124 RBS2-125 RBS2-126 RBS2-127 RBS2-128 RBS2-129 RBS2-130
- CHOICE CTFC Size - CTFC information - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m}	A2	4 bit CTFC 6 TFCs 0 Computed Gain Factors 0 FDD Not Present 3 Computed Gain Factors 0 FDD Not Present 1 Computed Gain Factors 0 FDD Not Present 4 Computed Gain Factors 0 FDD Not Present 2 Computed Gain Factors 0 FDD Not Present 5 Signalled Gain Factors FDD 8		

Information Element	Condition	Value/remark	Version	Index
- Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P_{p-m}		15 0 FDD Not Present		RBS2-131 RBS2-132 RBS2-133 RBS2-134
Deleted UL TrCH information list Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type	A1,A2	Not Present 1 DCH 1 Dedicated transport channels		RBS2-135 RBS2-136 RBS2-137 RBS2-138 RBS2-139 RBS2-140 RBS2-141
- Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List	A1	260 bits 2 Not Present 0 Not Present 1 ALL		RBS2-142 RBS2-143 RBS2-144 RBS2-145 RBS2-146 RBS2-147 RBS2-148 RBS2-149
- Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List	A2	260 bits 1 Not Present 0 ALL 16 bits 1 Not Present 1 ALL 260 bits 1 Not Present 1 ALL		RBS2-150 RBS2-151 RBS2-152 RBS2-153 RBS2-154 RBS2-155 RBS2-156 RBS2-157 RBS2-158 RBS2-159 RBS2-160 RBS2-161 RBS2-162 RBS2-163 RBS2-164 RBS2-165 RBS2-166 RBS2-167
- Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size CHOICE mode DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode	A1,A2	20 Convolutional 1/3 256 0 Not Present Not Present FDD		RBS2-168 RBS2-169 RBS2-170 RBS2-171 RBS2-172 RBS2-173 RBS2-174 RBS2-175 RBS2-176 RBS2-177
- CHOICE DL parameters	A1	Same as UL		RBS2-178
- CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m} - 4bit CTFC - Power offset Information	A2	DL DCH TFCS Normal Complete reconfiguration 4 bit CTFC 4 TFCs 0 Computed Gain Factors 0 FDD Not Present 2		RBS2-179 RBS2-180 RBS2-181 RBS2-182 RBS2-183 RBS2-184 RBS2-185 RBS2-186 RBS2-187 RBS2-188 RBS2-189 RBS2-190 RBS2-191 RBS2-192 RBS2-193 RBS2-194

Information Element	Condition	Value/remark	Version	Index
- CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m} - 4bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset P_{p-m} - 4bit CTFC - Power offset Information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P_{p-m}		Computed Gain Factors 0 FDD Not Present 1 Computed Gain Factors 0 FDD Not Present 3 Signalled Gain Factors FDD 8 15 0 FDD Not Present		RBS2-195 RBS2-196 RBS2-197 RBS2-198 RBS2-199 RBS2-200 RBS2-201 RBS2-202 RBS2-203 RBS2-204 RBS2-205 RBS2-206 RBS2-207 RBS2-208 RBS2-209 RBS2-210 RBS2-211 RBS2-212 RBS2-213
Deleted DL TrCH information list Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - CHOICE Transport channel type	A1,A2	Not Present 1 DCH 6 Dedicated transport channels		RBS2-214 RBS2-215 RBS2-216 RBS2-217 RBS2-218 RBS2-219 RBS2-220
- Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List	A1	244 bits 2 Not Present 0 Not Present 1 ALL		RBS2-221 RBS2-222 RBS2-223 RBS2-224 RBS2-225 RBS2-226 RBS2-227 RBS2-228
- Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List	A2	0 bits 1 Not Present 1 ALL 244 bits 1 Not Present 1 ALL		RBS2-229 RBS2-230 RBS2-231 RBS2-232 RBS2-233 RBS2-234 RBS2-235 RBS2-236 RBS2-237 RBS2-238 RBS2-239 RBS2-240
- Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value Frequency info Maximum allowed UL TX power CHOICE channel requirement	A1,A2	20 Convolutional 1/3 256 16 -20 (-2.0) Not Present 33dBm Uplink DPCH info		RBS2-241 RBS2-242 RBS2-243 RBS2-244 RBS2-245 RBS2-246 RBS2-247 RBS2-248 RBS2-249 RBS2-250 RBS2-251
Uplink DPCH info - Uplink DPCH power control info - CHOICE mode - DPCCH power offset		FDD -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	RBS2-252 RBS2-253 RBS2-254 RBS2-255

Information Element	Condition	Value/remark	Version	Index
- PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Δ_{ACK} - Δ_{NACK} - Ack-Nack repetition factor - CHOICE mode - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit		1 frame 7 frames Algorithm1 0 (1dB) Not Present Not Present Not Present FDD Long 0 (0 to 16777215) 1 64 TRUE Not Present(0) 1	Rel-5 Rel-5 Rel-5	RBS2-256 RBS2-257 RBS2-258 RBS2-259 RBS2-260 RBS2-261 RBS2-262 RBS2-263 RBS2-264 RBS2-265 RBS2-266 RBS2-267 RBS2-268 RBS2-269 RBS2-270 RBS2-271
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		Maintain	RBS2-275	RBS2-276
- Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control		Not Present	RBS2-277	RBS2-278
information		0	RBS2-279	RBS2-280
- CHOICE mode - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPDCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - Number of bits for Pilot bits		FDD 0 (single) FDD Not Present	RBS2-281	RBS2-282
- CHOICE mode - DPCH compressed mode info - TX Diversity mode - SSDT information		128 Fixed TRUE 128 8 FDD	RBS2-283	RBS2-284 RBS2-285 RBS2-286 RBS2-287 RBS2-288 RBS2-289 RBS2-290
- Default DPCH Offset Value - MAC-hs reset indicator - Post-verification period		Not Present None Not Present	RBS2-291 RBS2-292 RBS2-293	RBS2-291 RBS2-292 RBS2-293
Downlink information for per radio link list		Not Present Not Present Not Present	Rel-5 Rel-6	RBS2-294 RBS2-295 RBS2-296
- Downlink information for each radio link		FDD	RBS2-297	RBS2-297
- CHOICE mode		Reference to clause 6.1 "Default settings (FDD)"	RBS2-298	RBS2-298
- Primary CPICH info		Not Present	RBS2-299	RBS2-299
- Primary scrambling code			RBS2-300	RBS2-300
- PDSCH with SHO DCH info			RBS2-301	RBS2-301
- PDSCH code mapping		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		FDD	RBS2-304	RBS2-304
- CHOICE mode		Primary CPICH may be used	RBS2-305	RBS2-305
- Primary CPICH usage for channel estimation		Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400	RBS2-306	RBS2-306
- DPCH frame offset			RBS2-307	RBS2-307

Information Element	Condition	Value/remark	Version	Index
- Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity		Not Present Not Present 128 96 No change 0 Not Present	R99 and Rel-4 only	RBS2-308 RBS2-309 RBS2-310 RBS2-311 RBS2-312 RBS2-313 RBS2-314 RBS2-315
- Closed loop timing adjustment mode - SCCPCH information for FACH		Not Present Not Present	R99 and Rel-4 only	RBS2-316 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. SS provides the value of this IE, from its internal counter.		RBSH-004
- RRC message sequence number			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) 0000 0110B		RBSH-022
- RAB identity	The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBSH-023
- CN domain identity	PS domain		RBSH-024
- NAS Synchronization Indicator	Not Present		RBSH-025
- Re-establishment timer	UseT315		RBSH-026
- RB information to setup	25		RBSH-027
- RB identity	Not Present		RBSH-028
- PDCP info	RLC info		RBSH-029
- CHOICE RLC info type	Not Present		RBSH-030
- CHOICE Uplink RLC mode	UM RLC		RBSH-031
- CHOICE Downlink RLC mode	Selected with DL UM RLC data size	Rel-5	RBSH-032
- DL UM RLC LI size	FALSE	Rel-5	RBSH-033
- One sided RLC re-establishment			RBSH-034
- RB mapping info	1 RBMuxOptions		RBSH-035
- Information for each multiplexing option	Not Present		RBSH-036
- RLC logical channel mapping indicator			RBSH-037

Information Element	Value/remark	Version	Index
- Downlink RLC logical channel info	1		RBSH-038
- Number of downlink RLC logical channels			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
- CHOICE DL MAC header type	MAC-hs		RBSH-043
- DL HS-DSCH MAC-d flow identity	0		RBSH-044
- Logical channel identity	Not Present		RBSH-045
RB information to reconfigure list	Not Present	Rel-7	RBSH-046
RB information to be affected list	Not Present	Rel-6	RBSH-047
Downlink counter synchronization info	Not Present		RBSH-048
PDCP ROHC target mode	Not Present	Rel-5	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	2 bit CTFC		RBSH-058
- CHOICE CTFC Size	4 TFCs		RBSH-059
- CTFC information	Reference to clause TS 34.121 clause C.2.1		RBSH-060
- CTFC	Parameter Set		RBSH-061
- Power offset information			RBSH-062
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Signalled Gain Factors)		RBSH-063
- Gain factor β_c	8		RBSH-064
- Gain factor β_d	(Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)		RBSH-065
- Reference TFC ID	15		
- CHOICE mode	(Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)		
- Power offset P p-m	0		RBSH-066
Deleted UL TrCH information list	FDD		RBSH-067
Added or Reconfigured TrCH information list	Not Present		RBSH-068
CHOICE mode	Not Present		RBSH-069
DL Transport channel information common for all transport channel			RBSH-070
- SCCPCH TFCS	Not Present		RBSH-071
- CHOICE mode	FDD		RBSH-072
- CHOICE DL parameters	Explicit		RBSH-073
- DL DCH TFCS			RBSH-074
- CHOICE TFCI Signalling	Normal		RBSH-075
- TFCI Field 1 Information			RBSH-076
- CHOICE TFCS representation	Complete reconfiguration		RBSH-077
- TFCS complete reconfigure	2 bit CTFC		RBSH-078
- CHOICE CTFC Size	4 TFCs		RBSH-079
- CTFC information	Reference to clause TS 34.121 clause C.3.1		RBSH-080
- CTFC	Parameter Set		RBSH-081
- Power offset information	Not Present		RBSH-082
Deleted DL TrCH information	Not Present		RBSH-083
Added or Reconfigured DL TrCH information list	Not Present		RBSH-084
- Added or Reconfigured DL TrCH information	1 TrCHs added		RBSH-085
- Downlink transport channel type	(HS-DSCH for DTCH)		RBSH-086
- DL Transport channel identity	HS-DSCH	Rel-5	RBSH-087
- CHOICE DL parameters	Not Present		RBSH-088
- HARQ Info	HS-DSCH		RBSH-089
- Number of Processes			RBSH-090
- CHOICE Memory Partitioning	Reference to TS34.121 [2] Annex C Fixed	Rel-5	RBSH-091
- Memory size	Reference Channels		RBSH-092
	Explicit		RBSH-093
	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	Rel-7	RBSH-096
- CHOICE DL MAC header type	Reference Channels parameter "Number of SML's per HARQ Proc.". MAC-hs	Rel-7	RBSH-097
- Added or reconfigured MAC-d flow			RBSH-098
- MAC-hs queue to add or reconfigure list	(one queue)	Rel-5	RBSH-099
- MAC-hs queue Id	0		RBSH-100
- MAC-d Flow Identity	0		RBSH-101
- T1	50		RBSH-102
- MAC-hs window size	16		RBSH-103
- MAC-d PDU size Info	Reference to TS34.121 [2] Annex C Fixed		RBSH-104
- MAC-d PDU size	Reference Channels		RBSH-105
- MAC-d PDU size index	0		RBSH-106
- MAC-hs queue to delete list	Not present		RBSH-107
- DCH quality target	Not present		RBSH-108
Frequency info	Not Present		RBSH-109
Multi-frequency Info	Not present	Rel-7	RBSH-110
DTX-DRX timing information	Not present	Rel-7	RBSH-111
DRX Information	Not present	Rel-7	RBSH-112
HS-SCCH less Information	Not present	Rel-7	RBSH-113
MIMO parameters	Not present	Rel-7	RBSH-114
Maximum allowed UL TX power	33dBm		RBSH-115
CHOICE channel requirement	Uplink DPCH info	Rel-5 and earlier	RBSH-116
Uplink DPCH info		Rel-6	RBSH-117
- Uplink DPCH power control info	FDD		RBSH-118
- CHOICE mode	-40 (-80dB) IE value will have no effect on the UE		RBSH-119
- DPCCH power offset	UL power when closed loop power control is active		RBSH-120
- PC Preamble	1 frame		RBSH-121
- SRB delay	7 frames		RBSH-122
- Power Control Algorithm	Algorithm1		RBSH-123
- TPC step size	0 (1dB)		RBSH-124
- Δ_{ACK}	3	Rel-5	RBSH-125
- Δ_{NACK}	3	Rel-5	RBSH-126
- Ack-Nack repetition factor	1	Rel-5	RBSH-127
- CHOICE mode	FDD		RBSH-128
- Scrambling code type	Long		RBSH-129
- Scrambling code number	0 (0 to 16777215)		RBSH-130
- Number of DPDCH	Not Present (1)		RBSH-131
- spreading factor	64		RBSH-132
- TFCI existence	TRUE		RBSH-133
- Number of FBI bit	Not Present(0)		RBSH-134
- Puncturing Limit	1		RBSH-135
CHOICE Mode	FDD	R99 and Rel-4 only	RBSH-136
- Downlink PDSCH information	Not Present	R99 and Rel-4 only	RBSH-137
E-DCH Info	Not Present	Rel-6	RBSH-138
Downlink HS-PDSCH Information			RBSH-139
- HS-SCCH Info			RBSH-140
- CHOICE mode	FDD		RBSH-141
- DL Scrambling Code			RBSH-142
- HS-SCCH Channelisation Code Information			RBSH-143
- HS-SCCH Channelisation Code	2		RBSH-144
- HS-SCCH Channelisation Code	3		RBSH-145
- HS-SCCH Channelisation Code	6		RBSH-146
- HS-SCCH Channelisation Code	7		RBSH-147
- Measurement Feedback Info			RBSH-148
- CHOICE mode	FDD		RBSH-149
- POhsdsch	6 dB	Rel-5	RBSH-150
- CQI Feedback cycle, k	2 ms	Rel-5	RBSH-151
- CQI repetition factor	1	Rel-5	RBSH-152

Information Element	Value/remark	Version	Index
- Δ_{CQI}	5 (corresponds to 0dB in relative power offset)	Rel-5	RBSH-153
- CHOICE mode	FDD		RBSH-154
- Downlink 64QAM configured	Not Present	Rel-7	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			RBSH-158
- CHOICE mode	FDD		RBSH-159
- Primary CPICH info	Reference to clause 6.1 "Default settings (FDD)"		RBSH-160
- Primary scrambling code	Not Present	R99 and Rel-4 only	RBSH-161
- PDSCH with SHO DCH info		R99 and Rel-4 only	RBSH-162
- PDSCH code mapping	Not Present	R99 and Rel-4 only	RBSH-163
- Serving HS-DSCH radio link indicator	TRUE	Rel-5	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			RBSH-171
- Spreading factor	128		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	R99 and Rel-4 only	RBSH-176
- Closed loop timing adjustment mode	Not Present		RBSH-177
- SCCPCH information for FACH	Not Present	R99 and Rel-4 only	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			RBSB-001
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3		RBSB-002
Integrity check info			RBSB-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.		RBSB-004
- RRC message sequence number	SS provides the value of this IE, from its internal counter.		RBSB-005
Integrity protection mode info	Not Present		RBSB-006
Ciphering mode info	Not Present.		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		RBSB-008
New U-RNTI	Not Present		RBSB-009
New C-RNTI	Not Present		RBSB-010
New DSCH-RNTI	Not Present	R99 and Rel-4 only	RBSB-011
New H-RNTI	Not Present	Rel-5	RBSB-012
New Primary E-RNTI	Not Present	Rel-6	RBSB-013
New Secondary E-RNTI	Not Present	Rel-6	RBSB-014
RRC State indicator	CELL_DCH	Rel-6	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 specification mode	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
- CN domain identity	The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		
- NAS Synchronization Indicator	CS domain	RBSB-023	
- Re-establishment timer	Not Present	RBSB-024	
- RB information to setup	UseT314	RBSB-025	
- RB identity	10	RBSB-026	
- PDCP info	Not Present	RBSB-027	
- CHOICE RLC info type	RLC info	RBSB-028	
- CHOICE Uplink RLC mode	TM RLC	RBSB-029	
- Transmission RLC discard	Not Present	RBSB-030	
- Segmentation indication	FALSE	RBSB-031	
- CHOICE Downlink RLC mode	TM RLC	RBSB-032	
- Segmentation indication	FALSE	RBSB-033	
- RB mapping info		RBSB-034	
- Information for each multiplexing option		RBSB-035	
- RLC logical channel mapping indicator	Not Present	RBSB-036	
- Number of uplink RLC logical channels	1	RBSB-037	
- Uplink transport channel type	DCH	RBSB-038	
- UL Transport channel identity	1	RBSB-039	
- Logical channel identity	Not Present	RBSB-040	
- CHOICE RLC size list	Configured	RBSB-041	
- MAC logical channel priority	7	RBSB-042	
- Downlink RLC logical channel info		RBSB-043	
- Number of downlink RLC logical channels	1	RBSB-044	
- Downlink transport channel type	DCH	RBSB-045	
- DL DCH Transport channel identity	6	RBSB-046	
- DL DSCH Transport channel identity	Not Present	RBSB-047	
- Logical channel identity	Not Present	RBSB-048	
RB information to reconfigure list	Not Present	RBSB-049	
RB information to be affected	Not Present	RBSB-050	
Downlink counter synchronization info	Not Present	RBSB-051	
Not Present	Not Present	RBSB-052	
UL Transport channel information for all transport channels	RMC for BTFD	RBSB-053	
- PRACH TFCS		RBSB-054	
- CHOICE mode	Not Present	RBSB-055	
- TFC subset	FDD	RBSB-056	
- UL DCH TFCS	Not Present	RBSB-057	
- CHOICE TFCI signalling	Normal	RBSB-058	
- TFCI Field 1 information	Complete reconfiguration	RBSB-059	
- CHOICE TFCS representation	ctfc6Bit	RBSB-060	
- TFCS complete reconfigure information	22	RBSB-061	
- CHOICE CTFC Size	0	RBSB-062	
- ctfc6Bit	ComputedGainFactors	RBSB-063	
- ctfc6	0	RBSB-064	
- powerOffsetInformation(OP)	11	RBSB-065	
- gainFactorInformation	0	RBSB-066	
- Reference TFC ID	11	RBSB-067	
- ctfc6	0	RBSB-068	
- powerOffsetInformation(OP)	11	RBSB-069	
- gainFactorInformation	0	RBSB-070	
- Reference TFC ID	11	RBSB-071	
- ctfc6	0	RBSB-072	
- powerOffsetInformation(OP)	1	RBSB-073	
- powerOffsetInformation(OP)		RBSB-074	
-gainFactorInformation	ComputedGainFactors	RBSB-075	
- Reference TFC ID	0	RBSB-076	
- ctfc6	12	RBSB-077	
-powerOffsetInformation(OP)	SignalledGainFactors	RBSB-078	
-gainFactorInformation	Fdd	RBSB-079	
-modeSpecificInfo		RBSB-080	
-fdd		RBSB-081	
- Gain factor β_c	8	RBSB-082	
- Gain factor β_d	15	RBSB-083	
- Reference TFC ID	0	RBSB-084	
- ctfc6	2	RBSB-085	
- powerOffsetInformation(OP)		RBSB-086	

Information Element	Value/remark	Version	Index
-gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - modeSpecificInfo -fdd - Gain factor β_c - Gain factor β_d - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6	ComputedGainFactors 0 13 ComputedGainFactors 0 3 ComputedGainFactors 0 14 ComputedGainFactors 0 4 ComputedGainFactors 0 15 ComputedGainFactors 0 5 ComputedGainFactors 0 16 ComputedGainFactors 0 6 ComputedGainFactors 1 17 SignalledGainFactors Fdd 11 15 1 7 ComputedGainFactors 1 18 ComputedGainFactors 1 8 ComputedGainFactors 1 19		RBSB-087 RBSB-088 RBSB-089 RBSB-090 RBSB-091 RBSB-092 RBSB-093 RBSB-094 RBSB-095 RBSB-096 RBSB-097 RBSB-098 RBSB-099 RBSB-100 RBSB-101 RBSB-102 RBSB-103 RBSB-104 RBSB-105 RBSB-106 RBSB-107 RBSB-108 RBSB-109 RBSB-110 RBSB-111 RBSB-112 RBSB-113 RBSB-114 RBSB-115 RBSB-116 RBSB-117 RBSB-118 RBSB-119 RBSB-120 RBSB-121 RBSB-122 RBSB-123 RBSB-124 RBSB-125 RBSB-126 RBSB-127 RBSB-128 RBSB-129 RBSB-130 RBSB-131 RBSB-132 RBSB-133 RBSB-134 RBSB-135 RBSB-136 RBSB-137 RBSB-138 RBSB-139 RBSB-140 RBSB-141
-powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6	ComputedGainFactors 1 9 ComputedGainFactors 1 20 ComputedGainFactors 1 10		RBSB-142 RBSB-143 RBSB-144 RBSB-145 RBSB-146 RBSB-147 RBSB-148 RBSB-149 RBSB-150 RBSB-151 RBSB-152 RBSB-153

Information Element	Value/remark	Version	Index
-powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID - ctfc6 -powerOffsetInformation(OP) -gainFactorInformation - Reference TFC ID	ComputedGainFactors 1 21 ComputedGainFactors 1 1		RBSB-154 RBSB-155 RBSB-156 RBSB-157 RBSB-158 RBSB-159 RBSB-160 RBSB-161 RBSB-162 RBSB-163 RBSB-164 RBSB-165 RBSB-166 RBSB-167 RBSB-168 RBSB-169 RBSB-170 RBSB-171 RBSB-172 RBSB-173 RBSB-174 RBSB-175 RBSB-176 RBSB-177 RBSB-178 RBSB-179 RBSB-180 RBSB-181 RBSB-182 RBSB-183 RBSB-184 RBSB-185 RBSB-186 RBSB-187 RBSB-188 RBSB-189 RBSB-190 RBSB-191 RBSB-192 RBSB-193 RBSB-194 RBSB-195 RBSB-196 RBSB-197 RBSB-198 RBSB-199 RBSB-200 RBSB-201 RBSB-202 RBSB-203 RBSB-204 RBSB-205 RBSB-206 RBSB-207 RBSB-208
Added or Reconfigured UL TrCH information list			
- Added or Reconfigured UL TrCH information			
- 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			RBSB-245
- Added or Reconfigured DL TrCH information	1		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
-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			RBSB-296
- Transparent mode signalling info			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			RBSB-308
	-40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active		
- 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
- Δ_{ACK}	Not Present	Rel-5	RBSB-313
- Δ_{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 (as currently stored in SS) mod 38 400		RBSB-350
- DPCH frame offset	Not Present		RBSB-351
- Secondary CPICH info	Not Present		RBSB-352
- DL channelisation code	128		RBSB-353
- Secondary scrambling code	96		RBSB-354
- Spreading factor	No change		RBSB-355
- Code number	0		RBSB-356
- Scrambling code change	Not Present		RBSB-357
- TPC combination index	Not Present		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 - 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-003
- RRC message sequence number		SS provides the value of this IE, from its internal counter.		RBSE-004
Integrity protection mode info		Not Present		RBSE-005
Ciphering mode info		Not Present		RBSE-006
Activation time	A1	Not Present		RBSE-007
Activation time	A2, A3	(256+CFN-(CFN MOD 8 + 8))MOD 256		RBSE-008
New U-RNTI	A1, A2, A3	Not Present		RBSE-009
New C-RNTI		Not Present	R99 and Rel-4 only	RBSE-010
New DSCH-RNTI		Not Present		RBSE-011
New H-RNTI		'1010 1010 1010 1010'	Rel-5	RBSE-012
New Primary E-RNTI		'1010 1010 1010 1010'	Rel-6	RBSE-013
New Secondary E-RNTI		Not Present	Rel-6	RBSE-014
RRC State indicator		CELL_DCH		RBSE-015
UTRAN DRX cycle length coefficient		Not Present		RBSE-016
CN information info		Not Present		RBSE-017
URA identity		Not Present		RBSE-018
CHOICE specification mode		Complete specification	Rel-6	RBSE-019
- Signalling RB information to setup		Not Present		RBSE-020
- RAB information for setup list				RBSE-021
- RAB information for setup				RBSE-022
- RAB info		(high-speed UM DTCH for PS domain)		RBSE-023
- RAB identity		0000 0110B		RBSE-024
		The first/leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBSE-025
		PS domain		RBSE-026
		Not Present		RBSE-027
		useT315		RBSE-028
		25		RBSE-029
		Not present		RBSE-030
		RLC info		RBSE-031
		UM RLC		RBSE-032
		Not present		RBSE-033
		UM RLC		RBSE-034
		Selected with DL UM RLC data size	Rel-5	RBSE-035
		Not present	Rel-6	RBSE-036
		FALSE		RBSE-037
		Not present	Rel-6	RBSE-038
		1 RBMuxOptions		RBSE-039
		Not Present		RBSE-040
		1		RBSE-041
		E-DCH		RBSE-042
		7		RBSE-043
		2		RBSE-044
		5		RBSE-045
		1 RLC PDU size		RBSE-046
		336 bits		RBSE-047
		TRUE		RBSE-048
		8		RBSE-049
		1		RBSE-050
		HS-DSCH		RBSE-051
		Not Present		RBSE-052
				RBSE-053
				RBSE-054
				RBSE-055

Information Element	Condition	Value/remark	Version	Index
- DL DSCH Transport channel identity - CHOICE DL MAC header type - DL HS-DSCH MAC-d flow identity - Logical channel identity		Not Present MAC-hs 0 Not Present	Rel-7	RBSE-056 RBSE-057 RBSE-058 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	1 (UM DCCH for RRC) 1 RBMuxOption Not Present 1 E-DCH 1 1 1 RLC PDU size 96 bits FALSE 1 1 DCH 10 Not Present 1 2 (AM DCCH for RRC) 1 RBMuxOption Not Present 1 E-DCH 2 1 2 1 RLC PDU size 96 bits FALSE 2 1 DCH 10 Not Present 2 3 (AM DCCH for NAS High Priority) 1 RBMuxOption Not Present 1 E-DCH 3 1 3 1 RLC PDU size 96 bits FALSE 3 1 DCH 10 Not Present 3 4 (AM DCCH for NAS Low Priority) 1 RBMuxOption		RBSE-062 RBSE-063 RBSE-064 RBSE-065 RBSE-066 RBSE-067 RBSE-068 RBSE-069 RBSE-070 RBSE-071 RBSE-072 RBSE-073 RBSE-074 RBSE-075 RBSE-076 RBSE-077 RBSE-078 RBSE-079 RBSE-080 RBSE-081 RBSE-082 RBSE-083 RBSE-084 RBSE-085 RBSE-086 RBSE-087 RBSE-088 RBSE-089 RBSE-090 RBSE-091 RBSE-092 RBSE-093 RBSE-094 RBSE-095 RBSE-096 RBSE-097 RBSE-098 RBSE-099 RBSE-100 RBSE-101 RBSE-102 RBSE-103 RBSE-104 RBSE-105 RBSE-106 RBSE-107 RBSE-108 RBSE-109 RBSE-110 RBSE-111 RBSE-112 RBSE-113 RBSE-114 RBSE-115 RBSE-116 RBSE-117 RBSE-118 RBSE-119 RBSE-120 RBSE-121 RBSE-122

Information Element	Condition	Value/remark	Version	Index
- RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - E-DCH MAC-d flow identity - DDI - RLC PDU size list - RLC PDU size - Include in scheduling info - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity		Not Present 1 E-DCH 4 1 4 1 RLC PDU size 96 bits FALSE 4 1 DCH 10 Not Present 4		RBSE-123 RBSE-124 RBSE-125 RBSE-126 RBSE-127 RBSE-128 RBSE-129 RBSE-130 RBSE-131 RBSE-132 RBSE-133 RBSE-134 RBSE-135 RBSE-136 RBSE-137 RBSE-138
Downlink counter synchronization info PDCP ROHC target mode	A1, A2, A3	Not Present Not Present	Rel-5	RBSE-139 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 - Uplink transport channel type - UL transport channel identity	A2, A3	DCH 5		RBSE-143 RBSE-144 RBSE-145
Added or Reconfigured TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - CHOICE UL parameters - E-DCH Transmission Time Interval Interval - HARQ info for E-DCH - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type	A1	1 TrCH added 1 E-DCH added E-DCH E-DCH 10 ms Rv0 2 0 7 Not Present Scheduled grant info		RBSE-146 RBSE-147 RBSE-148 RBSE-149 RBSE-150 RBSE-151 RBSE-152 RBSE-153 RBSE-154 RBSE-155 RBSE-156 RBSE-157 RBSE-158
Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - CHOICE UL parameters - E-DCH Transmission Time Interval - HARQ info for E-DCH - HARQ RV Configuration - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type HARQ process allocation - Added or reconfigured E-DCH MAC-d flow - E-DCH MAC-d flow identity - E-DCH MAC-d flow power offset - E-DCH MAC-d flow maximum number of retransmissions - E-DCH MAC-d flow multiplexing list - CHOICE transmission grant type	A2, A3	1 TrCH added 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow E-DCH E-DCH <u>(A2: 2ms), (A3 10ms)</u> Rv0 (for DCCH) 1 0 7 Not Present Non-scheduled grant info 114 bits Not Present (for DTCH) 2 0 7 Not Present Scheduled grant info		RBSE-159 RBSE-160 RBSE-161 RBSE-162 RBSE-163 RBSE-164 RBSE-165 RBSE-166 RBSE-167 RBSE-168 RBSE-169 RBSE-170 RBSE-171 RBSE-172 RBSE-173 RBSE-174 RBSE-175 RBSE-176 RBSE-177 RBSE-178 RBSE-179
CHOICE mode	A1, A2, A3	Not Present	R99 and Rel-4	RBSE-180

Information Element	Condition	Value/remark	Version	Index
DL Transport channel information common for all transport channels	A1, A3	Not Present	only	RBSE-181
DL Transport channel information common for all transport channels	A2	Not Present FDD Explicit Normal Complete reconfiguration 2 bit CTFC 2 TFCs 0 computedGainFactors 0 Not Present 1 signalledGainFactors FDD 15 15 0 FDD Not Present		RBSE-182 RBSE-183 RBSE-184 RBSE-185 RBSE-186 RBSE-187 RBSE-188 RBSE-189 RBSE-190 RBSE-191 RBSE-192 RBSE-193 RBSE-194 RBSE-195 RBSE-196 RBSE-197 RBSE-198 RBSE-199 RBSE-200 RBSE-201 RBSE-202 RBSE-203 RBSE-204 RBSE-205 RBSE-206
Deleted TrCH information list	A1, A2, A3	Not Present		RBSE-207
Added or Reconfigured TrCH information list - Added or Reconfigured DL TrCH information	A1, A3	1 TrCH added HS-DSCH for DTCH added HS-DSCH Not Present HS-DSCH Reference to TS34.121 [2] Annex C Fixed Reference Channels Explicit Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of HARQ Processes". Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". Not Present MAC-hs (one queue) 0 0 50 16 Reference to TS34.121 [2] Annex C Fixed Reference Channels 0 Not present Not present	Rel-7 Rel-7	RBSE-208 RBSE-209 RBSE-210 RBSE-211 RBSE-212 RBSE-213 RBSE-214 RBSE-215 RBSE-216 RBSE-217 RBSE-218 RBSE-219 RBSE-220 RBSE-221 RBSE-222 RBSE-223 RBSE-224 RBSE-225 RBSE-226 RBSE-227 RBSE-228 RBSE-229 RBSE-230
Added or Reconfigured DL TrCH information	A2	2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) DCH 10 Explicit		RBSE-231 RBSE-232 RBSE-233 RBSE-234 RBSE-235 RBSE-236

Information Element	Condition	Value/remark	Version	Index
- CHOICE Transport channel type		Dedicated transport channels		RBSE-237
- Dynamic Transport format information				RBSE-238
- RLC Size		96 bits		RBSE-239
- Number of TBs and TTI List		2		RBSE-240
- Transmission Time Interval		Not Present		RBSE-241
- Number of Transport blocks		0		RBSE-242
- Transmission Time Interval		Not Present		RBSE-243
- Number of Transport blocks		1		RBSE-244
- CHOICE Logical channel list		ALL		RBSE-245
- Semi-static Transport Format information				RBSE-246
- Transmission time interval		40		RBSE-247
- Type of channel coding		Convolutional		RBSE-248
- Coding Rate		1/3		RBSE-249
- Rate matching attribute		256		RBSE-250
- CRC size		12		RBSE-251
- DCH quality target		-20 (-2.0)		RBSE-252
- BLER Quality value		HS-DSCH		RBSE-253
- Downlink transport channel type		Not Present		RBSE-254
- DL Transport channel identity		HS-DSCH		RBSE-255
- CHOICE DL parameters				RBSE-256
- HARQ Info		Reference to TS34.121 [2] Annex C		RBSE-257
- Number of Processes		Fixed Reference Channels		RBSE-258
- CHOICE Memory Partitioning		Explicit		RBSE-259
- Memory size		Reference to TS34.121 [2] Annex C		RBSE-260
- Process Memory Size		Fixed Reference Channels parameter "Number of HARQ Processes".		
- Additional memory sizes for MIMO		Reference to TS34.121 [2] Annex C		
- CHOICE DL MAC header type		Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". Not Present		
- Added or reconfigured MAC-d flow		Rel-7		RBSE-262
- MAC-hs queue to add or reconfigure list		MAC-hs		RBSE-263
- MAC-hs queue Id		(one queue)		RBSE-264
- MAC-d Flow Identity		0		RBSE-265
- T1		0		RBSE-266
- MAC-hs window size		50		RBSE-267
- MAC-d PDU size Info		16		RBSE-268
- MAC-d PDU size				RBSE-269
- MAC-d PDU size index		Reference to TS34.121 [2] Annex C		RBSE-270
- MAC-hs queue to delete list		Fixed Reference Channels		RBSE-271
- DCH quality target		0		RBSE-272
- Not present		Not present		RBSE-273
- Not present		Not present		RBSE-274
Frequency info	A1, A2, A3	Not present		RBSE-275
Multi-frequency Info		Not present	Rel-7	RBSE-276
DTX-DRX timing information		Not present	Rel-7	RBSE-277
DRX Information		Not present	Rel-7	RBSE-278
HS-SCCH less Information		Not present	Rel-7	RBSE-279
MIMO parameters		Not present	Rel-7	RBSE-280
Maximum allowed UL TX power		33dBm		RBSE-281
CHOICE channel requirement		Uplink DPCH info	Rel-5 and earlier	RBSE-282
Uplink DPCH info			Rel-6	RBSE-283
- Uplink DPCH power control info				RBSE-284
- DPCCH power offset		-40 (-80dB)		RBSE-285
- PC Preamble		1 frame		RBSE-286
- SRB delay		7 frames		RBSE-287
- Power Control Algorithm		Algorithm1		RBSE-288
- TPC step size		0 (1dB)		RBSE-289
- Δ_{ACK}		3		RBSE-290
- Δ_{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 - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit	A1	Not Present(1) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set		RBSE-296 RBSE-297 RBSE-298 RBSE-299 RBSE-300
- Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit	A2, A3	0 Not present FALSE Not present Not present		RBSE-301 RBSE-302 RBSE-303 RBSE-304 RBSE-305
E-DCH info - MAC-es/e reset indicator - E-DPCCH info - E-DPCCH/DPCCH power offset - Happy bit delay condition - E-TFCI boost info - E-TFCI BetaED SwitchE-DPDCH power interpolation	A1, A2, A3	TRUE 0 100 ms Not present Not present	Rel-6 Rel-7 Rel-7	RBSE-306 RBSE-307 RBSE-308 RBSE-309 RBSE-310 RBSE-311 RBSE-312
- E-DPDCH info - E-TFCI table index - E-DCH minimum set E-TFCI - Reference E-TFCIs - Reference E-TFCI - Reference E-TFCI PO - Maximum channelisation codes - PLnon-max - Scheduling Information Configuration - Periodicity for Scheduling Info – no grant - Periodicity for Scheduling Info – grant - Power Offset for Scheduling Info - 3-Index-Step Threshold - 2-Index-Step Threshold	A1, A3	0 9 1 E-TFCI 11 4 2sf4 0.84 Not present Not present 0 Not present Not present		RBSE-313 RBSE-314 RBSE-315 RBSE-316 RBSE-317 RBSE-318 RBSE-319 RBSE-320 RBSE-321 RBSE-322 RBSE-323 RBSE-324 RBSE-325 RBSE-326
- E-DPDCH info - E-TFCI table index - E-DCH minimum set E-TFCI - Reference E-TFCIs - Reference E-TFCI - Reference E-TFCI PO - Reference E-TFCI PO - Maximum channelisation codes - PLnon-max - Scheduling Information Configuration - Periodicity for Scheduling Info – no grant - Periodicity for Scheduling Info – grant - Power Offset for Scheduling Info - 3-Index-Step Threshold - 2-Index-Step Threshold	A2	0 9 2 E-TFCI 11 4 83 16 2sf2and2sf4 0.84 Not present Not present 0 Not present Not present		RBSE-327 RBSE-328 RBSE-329 RBSE-330 RBSE-331 RBSE-332 RBSE-333 RBSE-334 RBSE-335 RBSE-336 RBSE-337 RBSE-338 RBSE-339 RBSE-340 RBSE-341 RBSE-342
- Scheduled Transmission configuration - 2ms scheduled transmission grant HARQ process allocation - Serving Grant	A1, A2, A3	Not present Not present		RBSE-343 RBSE-344 RBSE-345
- UL 16QAM settings		Not present	Rel-7	RBSE-346
CHOICE Mode - Downlink PDSCH information		FDD Not Present	R99 and Rel-4 only R99 and Rel-4 only	RBSE-347 RBSE-348
Downlink HS-PDSCH Information - HS-SCCH Info - CHOICE mode - DL Scrambling Code - HS-SCCH Channelisation Code		FDD Not present		RBSE-349 RBSE-350 RBSE-351 RBSE-352 RBSE-353
Information - HS-SCCH Channelisation Code - HS-SCCH Channelisation Code		2 3		RBSE-354 RBSE-355

Information Element	Condition	Value/remark	Version	Index
- Measurement Feedback Info - CHOICE mode - POhsdsch - CQI Feedback cycle, k - CQI repetition factor - Δ_{CQI}		FDD 6 dB 2 ms 1 5 (corresponds to 0dB in relative power offset) FDD Not Present		RBSE-356 RBSE-357 RBSE-358 RBSE-359 RBSE-360 RBSE-361 RBSE-362 RBSE-363
- CHOICE mode - Downlink 64QAM configured			Rel-7	RBSE-363
Downlink information common for all radio links	A1, A3	Not Present		RBSE-364
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset PPilot-DPDCH - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - Number of bits for Pilot bits - CHOICE mode - DPCH compressed mode info - TX Diversity mode - Default DPCH Offset Value - MAC-hs reset indicator - Post-verification period	A2	Maintain Not Present 0 (single) FDD 0 Not Present 256 Fixed FALSE 256 8 FDD Not Present None Not Present Not Present Not Present		RBSE-365 RBSE-366 RBSE-367 RBSE-368 RBSE-369 RBSE-370 RBSE-371 RBSE-372 RBSE-373 RBSE-374 RBSE-375 RBSE-376 RBSE-377 RBSE-378 RBSE-379 RBSE-380 RBSE-381 RBSE-382 RBSE-383 RBSE-384
Downlink information for each radio link list	A1, A2, A3			RBSE-385
- Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Serving HS-DSCH radio link indicator - Serving E-DCH radio link indicator - Downlink DPCH info for each RL - CHOICE mode - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor - Code number		FDD Ref. to clause 6.1 "Default settings (FDD)" Not Present Not Present TRUE TRUE FDD Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present Not Present	R99 and Rel-4 only R99 and Rel-4 only	RBSE-386 RBSE-387 RBSE-388 RBSE-389 RBSE-390 RBSE-391 RBSE-392 RBSE-393 RBSE-394 RBSE-395 RBSE-396 RBSE-397 RBSE-398 RBSE-399 RBSE-400
- Spreading factor - Code number	A1	Reference to clause 6.10 Parameter Set 96		RBSE-401 RBSE-402
- Spreading factor - Code number	A2, A3	256 192		RBSE-403 RBSE-404
- Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - E-AGCH Info - E-AGCH Channelisation Code - CHOICE E-HICH Information - E-HICH Information	A1, A2, A3	No code change 0 Not Present Not Present 14	R99 and Rel-4 only Rel-6 Rel-6	RBSE-405 RBSE-406 RBSE-407 RBSE-408 RBSE-409 RBSE-410 RBSE-411 RBSE-412

Information Element	Condition	Value/remark	Version	Index
- DL Scrambling code - Channelisation code - Signature sequence - CHOICE E-RGCH Information - SCCPCH information for FACH		Not Present (default is primary) 6 1 Not Present Not Present	Rel-6 R99 and Rel-4 only	RBSE-413 RBSE-414 RBSE-415 RBSE-416 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	25		RBSF-026
- RB identity	Not Present		RBSF-027
- PDCP info	RLC info		RBSF-028
- CHOICE RLC info type	Not present		RBSF-029
- CHOICE Uplink RLC mode	UM RLC		RBSF-030
- CHOICE Downlink RLC mode	Selected with DL UM RLC data size	Rel-5	RBSF-031
- DL UM RLC LI size	FALSE	Rel-5	RBSF-032
- One sided RLC re-establishment			RBSF-033
- RB mapping info	1 RBMuxOption		RBSF-034
- Information for each multiplexing option	Not Present		RBSF-035
- RLC logical channel mapping indicator	1		RBSF-036
- Number of uplink RLC logical channels			RBSF-037
- Downlink RLC logical channel info	1		RBSF-038
- Number of downlink RLC logical channels	HS-DSCH		RBSF-039
- Downlink transport channel type	Not present		RBSF-040
- DL DCH Transport channel identity	Not present		RBSF-041
- DL DSCH Transport channel identity	MAC-hs		RBSF-042
- CHOICE DL MAC header type		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	1 (UM DCCH for RRC)	Rel-6	RBSF-047
- RB identity			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		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		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		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 - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE DL MAC header type - DL HS-DSCH MAC-d flow identity - Logical channel identity	4 1 HS-DSCH Not Present Not Present MAC-hs 0 4	Rel-7	RBSF-111 RBSF-112 RBSF-113 RBSF-114 RBSF-115 RBSF-116 RBSF-117 RBSF-118 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 RBSF-123 RBSF-124 RBSF-125 RBSF-126 RBSF-127 RBSF-128 RBSF-129 RBSF-130 RBSF-131 RBSF-132 RBSF-133 RBSF-134 RBSF-135 RBSF-136 RBSF-137 RBSF-138 RBSF-139 RBSF-140 RBSF-141 RBSF-142 RBSF-143 RBSF-144 RBSF-145 RBSF-146 RBSF-147
- PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - 2bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - 2bit CTFC - Power offset Information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset Pp-m	Not Present FDD Not Present Normal Complete reconfiguration 2 bit CTFC 2 TFCs 0 computedGainFactors 0 FDD Not Present 1 signalledGainFactors FDD 15 15 0 FDD Not Present		
Deleted UL TrCH information	Not Present	Rel-6	RBSF-148
Added or Reconfigured UL TrCH information		Rel-6	RBSF-149 RBSF-150 RBSF-151 RBSF-152 RBSF-153 RBSF-154 RBSF-155 RBSF-156 RBSF-157 RBSF-158 RBSF-159 RBSF-160 RBSF-161 RBSF-162 RBSF-163 RBSF-164 RBSF-165 RBSF-166 RBSF-167 RBSF-168
- Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size	DCH 5 Dedicated transport channels 96 bits 2 Not Present 0 Not Present 1 ALL 40 Convolutional 1/3 256 12		
DL Transport channel information common for all transport channel	Not Present	Rel-6	RBSF-169
Deleted DL TrCH information		Rel-6	RBSF-170 RBSF-171 RBSF-172
- Downlink transport channel type - DL Transport channel identity	DCH 10		
Added or Reconfigured DL TrCH information	1 TrCH (HS-DSCH for DTCH and DCCH)	Rel-6	RBSF-173
- Downlink transport channel type - DL Transport channel identity	HS-DSCH Not Present		RBSF-174 RBSF-175

Information Element	Value/remark	Version	Index
- CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory Partitioning - Memory size - Process Memory Size - Additional memory sizes for MIMO	HS-DSCH Reference to TS34.121 [2] Annex C Fixed Reference Channels Explicit Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of HARQ Processes". Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". Not Present MAC-hs		RBSF-176 RBSF-177 RBSF-178 RBSF-179 RBSF-180 RBSF-181
- CHOICE DL MAC header type - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target	(two queues) 0 (for DCCH) 0 50 16 100 0 1 (for DTCH) 1 50 16 Reference to TS34.121 [2] Annex C Fixed Reference Channels 0 Not present Not present	Rel-7 Rel-7	RBSF-182 RBSF-183 RBSF-184 RBSF-185 RBSF-186 RBSF-187 RBSF-188 RBSF-189 RBSF-190 RBSF-191 RBSF-192 RBSF-193 RBSF-194 RBSF-195 RBSF-196 RBSF-197 RBSF-198 RBSF-199 RBSF-200 RBSF-201
Frequency info	Not present		RBSF-202
Multi-frequency Info	Not present	Rel-7	RBSF-203
DTX-DRX timing information	Not present	Rel-7	RBSF-204
DRX Information	Not present	Rel-7	RBSF-205
HS-SCCH less Information	Not present	Rel-7	RBSF-206
MIMO parameters	Not present	Rel-7	RBSF-207
Maximum allowed UL TX power	33dBm		RBSF-208
Uplink DPCH info - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Δ_{ACK} - Δ_{NACK} - Ack-Nack repetition factor - HARQ_preamble_mode - CHOICE mode - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit	-40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) 3 3 1 0 FDD Long 0 (0 to 16777215) Not Present (1) 256 TRUE Not Present(0) 1	Rel-6	RBSF-209 RBSF-210 RBSF-211 RBSF-212 RBSF-213 RBSF-214 RBSF-215 RBSF-216 RBSF-217 RBSF-218 RBSF-219 RBSF-220 RBSF-221 RBSF-222 RBSF-223 RBSF-224 RBSF-225 RBSF-226 RBSF-227
E-DCH info	Not Present	Rel-6	RBSF-228
Downlink HS-PDSCH Information - HS-SCCH Info - CHOICE mode - DL Scrambling Code - HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - Measurement Feedback Info	FDD Not present 2	Rel-6	RBSF-229 RBSF-230 RBSF-231 RBSF-232 RBSF-233 RBSF-234 RBSF-235

Information Element	Value/remark	Version	Index
- CHOICE mode - POhsdsch - CQI Feedback cycle, k - CQI repetition factor - Δ_{CQI} - CHOICE mode - Downlink 64QAM configured	FDD 6 dB 2 ms 1 5 (corresponds to 0dB in relative power offset) FDD Not Present	Rel-7	RBSF-236 RBSF-237 RBSF-238 RBSF-239 RBSF-240 RBSF-241 RBSF-242
Downlink information common for all radio links		Rel-6	RBSF-243
- Downlink F-DPCH info common for all RL - Timing Indication - Timing maintained Synchronization indicator - Downlink F-DPCH power control information - DPC mode - TPC command error rate target - CHOICE mode - DPCH compressed mode info - TX Diversity mode - Default DPCH Offset Value - MAC-hs reset indicator	Maintain FALSE 0 (single) 0.04 FDD Not Present None Not Present Not Present		RBSF-244 RBSF-245 RBSF-246 RBSF-247 RBSF-248 RBSF-249 RBSF-250 RBSF-251 RBSF-252 RBSF-253 RBSF-254
Downlink information for each radio link list		Rel-6	RBSF-255
- Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - Serving HS-DSCH radio link indicator - Downlink DPCH info for each RL - Downlink F-DPCH info for each RL - Primary CPICH usage for channel estimation - F-DPCH frame offset - Secondary CPICH info - Secondary scrambling code - Code number - TPC combination index	FDD Ref. to clause 6.1 "Default settings (FDD)" TRUE Not Present Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 Not Present Not Present 6 0		RBSF-256 RBSF-257 RBSF-258 RBSF-259 RBSF-260 RBSF-261 RBSF-262 RBSF-263 RBSF-264 RBSF-265 RBSF-266 RBSF-267 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 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-hs		RBSD-043
- DL HS-DSCH MAC-d flow identity	0		RBSD-044
- Logical channel identity	Not Present		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 Parameter Set		RBSD-061
- Power offset information			RBSD-062
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Signalled Gain Factors)		RBSD-063
- Gain factor β_c	8 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)		RBSD-064
- Gain factor β_d	15 (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)		RBSD-065
- Reference TFC ID	0		RBSD-066
- CHOICE mode	FDD		RBSD-067
- Power offset P p-m	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 (HS-DSCH for DTCH)		RBSD-086
- Added or Reconfigured DL TrCH information	HS-DSCH	Rel-5	RBSD-087
- Downlink transport channel type	Not Present		RBSD-088
- DL Transport channel identity	HS-DSCH		RBSD-089
- CHOICE DL parameters	Not Present		RBSD-090
- HARQ Info	HS-DSCH	Rel-5	RBSD-091
- Number of Processes	Reference to TS34.121 [2] Annex C Fixed Reference Channels		RBSD-092
- CHOICE Memory Partitioning	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-hs	Rel-7	RBSD-097
- Added or reconfigured MAC-d flow	(one queue)	Rel-5	RBSD-098
- MAC-hs queue to add or reconfigure list	0		RBSD-099
- MAC-hs queue Id	0		RBSD-100
- MAC-d Flow Identity	0		RBSD-101
- T1	50		RBSD-102
- MAC-hs window size	16		RBSD-103
- MAC-d PDU size Info	Reference to TS34.121 [2] Annex C Fixed Reference Channels		RBSD-104
- MAC-d PDU size	0		RBSD-105
- MAC-d PDU size index	Reference to TS34.121 [2] Annex C Fixed Reference Channels		RBSD-106
- MAC-hs queue to delete list	0		RBSD-107
- 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	FDD		RBSD-118
- CHOICE mode	-40 (-80dB) IE value will have no effect on the UE		RBSD-119
- DPCCH power offset	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
- Δ_{ACK}	3	Rel-5	RBSD-125
- Δ_{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

Information Element	Value/remark	Version	Index
- HS-SCCH Info - CHOICE mode - DL Scrambling Code - HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - HS-SCCH Channelisation Code	FDD 2 3		RBSD-138 RBSD-139 RBSD-140 RBSD-141 RBSD-142 RBSD-143
- Measurement Feedback Info - CHOICE mode - POhsdsch - CQI Feedback cycle, k - CQI repetition factor - Δ_{CQI}	FDD 6 dB 2 ms 1 5 (corresponds to 0dB in relative power offset)	Rel-5	RBSD-146 RBSD-147 RBSD-148 RBSD-149 RBSD-150 RBSD-151
- CHOICE mode - Downlink 64QAM configured	FDD Not Present	Rel-7	RBSD-152 RBSD-153
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 - Primary CPICH info - Primary scrambling code - Serving HS-DSCH radio link indicator	FDD Reference to clause 6.1 "Default settings (FDD)" TRUE	Rel-5	RBSD-157 RBSD-158 RBSD-159
- Downlink DPCH info for each RL			RBSD-160
- CHOICE mode - Primary CPICH usage for channel estimation	FDD Primary CPICH may be used		RBSD-161 RBSD-162
- DPCH frame offset	Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400		RBSD-163 RBSD-164
- Secondary CPICH info	Not Present		RBSD-165
- DL channelisation code			RBSD-166
- Secondary scrambling code			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			RBSD-173
- CHOICE Configuration info - New H-RNTI - Downlink 64QAM configured - HS-DSCH TB size table - Primary CPICH info - Primary scrambling code - DL Scrambling Code	New configuration '1010 1010 1010 1010' Not Present Not Present Ref. to the Default setting in clause 6.1 (FDD) Not Present		RBSD-174 RBSD-175 RBSD-176 RBSD-177 RBSD-178
- HS-SCCH Channelisation Code Information - HS-SCCH Channelisation Code - HS-SCCH Channelisation Code	2 3		RBSD-179 RBSD-180 RBSD-181 RBSD-182 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 RRC CONNECTION RELEASE message: UM

Information Element	Value/remark	Version
Message Type U-RNTI - SRNC identity - S-RNTI	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. 0000 0000 0001B 0000 0000 0000 0000 0001B	R99, Rel-4
CHOICE identity type - U-RNTI - SRNC identity - S-RNTI	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. 0000 0000 0001B 0000 0000 0000 0000 0001B	Rel-5
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 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	
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		0000 0000 0001B		RCSU-005
- SRNC identity		0000 0000 0000 0000 0001B		RCSU-006
- S-RNTI		Not Present		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 requirement		TRUE		RCSU-015
- 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		GSM		RCSU-019
CHOICE specification mode		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

Information Element	Condition	Value/remark	Version	Index
- 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		1		RCSU-054
- Number of RLC logical channels		FACH		RCSU-055
- Downlink transport channel type		Not Present		RCSU-056
- DL DCH Transport channel identity		Not Present		RCSU-057
- DL DSCH Transport channel identity		1		RCSU-058
- Logical channel identity		(AM DCCH for RRC)		RCSU-059
- Signalling RB information to setup		Not Present		RCSU-060
- RB identity				RCSU-061
- CHOICE RLC info type				RCSU-062
- RLC info		AM RLC		RCSU-063
- CHOICE Uplink RLC mode		No Discard		RCSU-064
- Transmission RLC discard		15		RCSU-065
- SDU discard mode		128		RCSU-066
- MAX_DAT		500		RCSU-067
- Transmission window size		1		RCSU-068
- Timer_RST		200		RCSU-069
- Max_RST		200		RCSU-070
- Polling info		Not Present		RCSU-071
- Timer_poll_prohibit		1		RCSU-072
- Timer_poll		TRUE		RCSU-073
- Poll_PDU		TRUE		RCSU-074
- Poll_SDU		99		RCSU-075
- Last transmission PDU poll		Not Present		RCSU-076
- Last retransmission PDU poll		AM RLC		RCSU-077
- Poll_Windows		96 bits		RCSU-078
- Timer_poll_periodic		96 bits	Rel-6	RCSU-079
- CHOICE Downlink RLC mode				RCSU-080
- DL RLC PDU size	A1	144 bits	Rel-6	RCSU-081
- DL RLC PDU size				RCSU-082
- In-sequence delivery		TRUE		RCSU-083
- Receiving window size		128		RCSU-084
- Downlink RLC status info		200		RCSU-085
- Timer_status_prohibit		Not Present		RCSU-086
- Timer_EPC		TRUE		RCSU-087
- Missing PDU indicator				RCSU-088
- Timer_STATUS_periodic		Not Present		RCSU-089
- RB mapping info		2 RBMuxOptions		RCSU-090
- Information for each multiplexing option		Not Present		RCSU-091
- RLC logical channel mapping indicator		1		RCSU-092
- Number of RLC logical channels		DCH		RCSU-093
- Uplink transport channel type		5		RCSU-094
- UL Transport channel identity		2		RCSU-095
- Logical channel identity		Configured		RCSU-096
- CHOICE RLC size list		2		RCSU-097
- MAC logical channel priority		1		RCSU-098
- Downlink RLC logical channel info		DCH		RCSU-099
- Number of RLC logical channels		10		RCSU-100
- Downlink transport channel type		Not Present		RCSU-101
- DL DCH Transport channel identity		2		RCSU-102
- DL DSCH Transport channel identity		Not Present		RCSU-103
- Logical channel identity		1		RCSU-104
- RLC logical channel mapping indicator		RACH		RCSU-105
- Number of RLC logical channels		Not Present		RCSU-106
- Uplink transport channel type		Not Present		RCSU-107
- UL Transport channel identity		2		RCSU-108
- Logical channel identity		Explicit List		RCSU-109
- CHOICE RLC size list		Reference to clause 6 Parameter Set		RCSU-110
- RLC size index				RCSU-111

Information Element	Condition	Value/remark	Version	Index
- MAC logical channel priority		2		RCSU-112
- Downlink RLC logical channel info		1		RCSU-113
- Number of RLC logical channels		FACH		RCSU-114
- Downlink transport channel type		Not Present		RCSU-115
- DL DCH Transport channel identity		Not Present		RCSU-116
- DL DSCH Transport channel identity		2		RCSU-117
- Logical channel identity		(AM DCCH for NAS_DT High priority)		RCSU-118
- Signalling RB information to setup		Not Present		RCSU-119
- RB identity				RCSU-120
- CHOICE RLC info type				RCSU-121
- RLC info		AM RLC		RCSU-122
- CHOICE Uplink RLC mode		No Discard		RCSU-123
- Transmission RLC discard		15		RCSU-124
- SDU discard mode		128		RCSU-125
- MAX_DAT		500		RCSU-126
- Transmission window size		1		RCSU-127
- Timer_RST		200		RCSU-128
- Max_RST		200		RCSU-129
- Polling info		Not Present		RCSU-130
- Timer_poll_prohibit		1		RCSU-131
- Timer_poll		TRUE		RCSU-132
- Poll_PDU		TRUE		RCSU-133
- Poll_SDU		99		RCSU-134
- Last transmission PDU poll		Not Present		RCSU-135
- Last retransmission PDU poll		AM RLC		RCSU-136
- Poll_Windows		96 bits		RCSU-137
- Timer_poll_periodic			Rel-6	RCSU-138
- CHOICE Downlink RLC mode				RCSU-139
- DL RLC PDU size				RCSU-140
- 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

Information Element	Condition	Value/remark	Version	Index
- RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - 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 - DL RLC PDU size		Not Present AM RLC No Discard 15 128 500 1 200 200 Not Present 1 TRUE TRUE 99 Not Present AM RLC 96 bits	Rel-6	RCSU-179 RCSU-180 RCSU-181 RCSU-182 RCSU-183 RCSU-184 RCSU-185 RCSU-186 RCSU-187 RCSU-188 RCSU-189 RCSU-190 RCSU-191 RCSU-192 RCSU-193 RCSU-194 RCSU-195 RCSU-196 RCSU-197 RCSU-198 RCSU-199
- DL RLC PDU size	A1	144 bits	Rel-6	RCSU-200
- In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity		TRUE 128 200 Not Present TRUE Not Present 2 RBMuxOptions Not Present 1 DCH 5 4 Configured 4 1 DCH 10 Not Present 4 Not Present 1 RACH Not Present		RCSU-201 RCSU-202 RCSU-203 RCSU-204 RCSU-205 RCSU-206 RCSU-207 RCSU-208 RCSU-209 RCSU-210 RCSU-211 RCSU-212 RCSU-213 RCSU-214 RCSU-215 RCSU-216 RCSU-217 RCSU-218 RCSU-219 RCSU-220 RCSU-221 RCSU-222 RCSU-223 RCSU-224 RCSU-225 RCSU-226
- Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity UL Transport channel information for all transport channels - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation		4 Explicit List Reference to clause 6 Parameter Set 4 1 FACH Not Present Not Present 4 Not Present FDD Not Present Normal Complete reconfiguration		RCSU-227 RCSU-228 RCSU-229 RCSU-230 RCSU-231 RCSU-232 RCSU-233 RCSU-234 RCSU-235 RCSU-236 RCSU-237 RCSU-238 RCSU-239 RCSU-240 RCSU-241 RCSU-242 RCSU-243 RCSU-244

Information Element	Condition	Value/remark	Version	Index
- TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information - 2bit CTFC - Power offset Information - CHOICE Gain Factors - Reference TFC ID - CHOICE mode - Power offset Pp-m - 2bit CTFC - Power offset Information - CHOICE Gain Factors - CHOICE mode - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset Pp-m		2 bit CTFC 2 TFCs 0 computedGainFactors 0 FDD Not Present 1 signalledGainFactors FDD 15 15 0 FDD Not Present 1		RCSU-245 RCSU-246 RCSU-247 RCSU-248 RCSU-249 RCSU-250 RCSU-251 RCSU-252 RCSU-253 RCSU-254 RCSU-255 RCSU-256 RCSU-257 RCSU-258 RCSU-259 RCSU-260 RCSU-261 RCSU-262 RCSU-263 RCSU-264 RCSU-265 RCSU-266 RCSU-267 RCSU-268 RCSU-269 RCSU-270
Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport Format Information - RLC size		DCH 5 Dedicated transport channels		RCSU-263 RCSU-264 RCSU-265 RCSU-266 RCSU-267 RCSU-268 RCSU-269 RCSU-270
- RLC size	A1	144 bits		RCSU-271
- Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size		2 Not Present 0 Not Present 1 ALL 40 Convolutional 1/3 256 12		RCSU-272 RCSU-273 RCSU-274 RCSU-275 RCSU-276 RCSU-277 RCSU-278 RCSU-279 RCSU-280 RCSU-281 RCSU-282 RCSU-283
- CRC size	A1	16		RCSU-284
DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters				RCSU-285
Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters		Not Present FDD Same as UL 1 DCH 10 SameAsUL		RCSU-286 RCSU-287 RCSU-288 RCSU-289 RCSU-290 RCSU-291 RCSU-292 RCSU-293
- Uplink transport channel type - UL TrCH Identity		DCH 5		RCSU-294 RCSU-295
- DCH quality target - BLER Quality value		-20 (-2.0) Not Present		RCSU-296 RCSU-297
Frequency info		Not Present		RCSU-298
Maximum allowed UL TX power		Not Present		RCSU-299
CHOICE channel requirement		Uplink DPCH info	Rel-5 and earlier	RCSU-300
Uplink DPCH info - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Δ_{ACK}			Rel-6	RCSU-301 RCSU-302 RCSU-303 RCSU-304 RCSU-305 RCSU-306 RCSU-307 RCSU-308
		-40 (-80dB) 1 frame 7 frames Algorithm1 0 (1dB) Not Present	Rel-5	

Information Element	Condition	Value/remark	Version	Index
- ΔNACK	Not Present		Rel-5	RCSU-309
- Ack-Nack repetition factor	Not Present		Rel-5	RCSU-310
- HARQ_preamble_mode	0		Rel-6	RCSU-311
- CHOICE mode	FDD			RCSU-312
- Scrambling code type	Long			RCSU-313
- Scrambling code number	0 (0 to 16777215)			RCSU-314
- Number of DPDCH	Not Present (1)			RCSU-315
- Spreading factor	256			RCSU-316
- TFCI existence	TRUE			RCSU-317
- Number of FBI bit	Not Present(0)			RCSU-318
- Puncturing Limit	1			RCSU-319
E-DCH Info	Not Present		Rel-6	RCSU-320
Downlink HS-PDSCH Information	Not Present		Rel-6	RCSU-321
Downlink information common for all radio links				RCSU-322
- Downlink DPCH info common for all RL				RCSU-323
- Timing Indication	Initialize			RCSU-324
- CFN-targetSFN frame offset	Not Present			RCSU-325
- Downlink DPCH power control information				RCSU-326
- CHOICE mode	FDD			RCSU-327
- DPC mode	0 (single)			RCSU-328
- CHOICE mode	FDD			RCSU-329
- Power offset P _{Pilot-DPDCH}	0			RCSU-330
- DL rate matching restriction information	Not Present			RCSU-331
- Spreading factor	256			RCSU-332
- Fixed or Flexible Position	Fixed			RCSU-333
- TFCI existence	FALSE			RCSU-334
- CHOICE SF	8			RCSU-335
- Number of bits for Pilot bits	Not Present			RCSU-336
- DPCH compressed mode info	None			RCSU-337
- TX Diversity mode	Not Present			RCSU-338
- SSDT information			R99 and Rel-4 only	RCSU-339
- Default DPCH Offset Value	Arbitrary set to value 0..306688 by step of 512			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	Reference to clause 6.1 "Default settings (FDD)"			RCSU-344
- Primary scrambling code	Not Present		R99 and Rel-4 only	RCSU-345
- PDSCH with SHO DCH info			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		Rel-6	RCSU-354
- DL channelisation code	Not Present		RCSU-355	RCSU-355
- Secondary scrambling code	256			RCSU-356
- Spreading factor	192			RCSU-357
- Code number	Not Present			RCSU-358
- Scrambling code change	0			RCSU-359
- TPC combination index	Not Present		R99 and Rel-4 only	RCSU-360
- SSDT Cell Identity	Not Present			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

Information Element	Condition	Value/remark	Version	Index
- 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 - RRC Message Sequence Number		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. Set to an arbitrarily selected integer between 0 and 15
Security capability - Ciphering algorithm capability - UEA0 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare		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. 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. Spare 2-15 = FALSE 0000000000000010B (UIA1) TRUE Spare 0 and Spare 2-15 = FALSE
Ciphering mode info - Ciphering mode command - Ciphering algorithm info - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number		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. Start/restart 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. Not Present 1 Current RLC SN 2 Current RLC SN+3(or Calculated Value) 3 Current RLC SN 4 Current RLC SN
Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number		Start Not Present UIA1 SS selects an arbitrary 32 bits number for FRESH. The first/ leftmost bit of the bit string contains the most significant bit of the FRESH.A1
CN domain identity		CS or PS

UE system specific security capability	A1	Not Present
UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability	A2	GSM 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

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 - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	PS domain Set to the same octet string as in the IMSI stored in the USIM card Not Present
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Contents of RADIO BEARER SETUP message: AM or UM (3.84 Mcps TDD)

Information Element	Condition	Value/remark	Version	Index
Message Type				RBS3-001
RRC transaction identifier				RBS3-002
Integrity check info				RBS3-003
- message authentication code				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		RBS3-012
RRC State indicator		CELL_DCH		RBS3-013
UTRAN DRX cycle length coefficient		Not Present		RBS3-014
CN information info		Not Present		RBS3-015
URA identity		Not Present		RBS3-016
- Signalling RB information to setup		Not Present		RBS3-017
- RAB information for setup list		0000 0001B		RBS3-018
- RAB information for setup		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-019
- RAB info		CS domain		RBS3-020
- RAB identity		Not Present		RBS3-021
- CN domain identity		UseT314		
- NAS Synchronization Indicator				RBS3-022
- Re-establishment timer				RBS3-023
- RB information to setup list				RBS3-024
- RB information to setup				RBS3-025
- RAB identity		10		RBS3-026
- PDCP info		Not Present		RBS3-027
- CHOICE RLC info type		RLC info		RBS3-028
- CHOICE Uplink RLC mode		TM RLC		RBS3-029
- Transmission RLC discard		Not Present		RBS3-030
- Segmentation indication		FALSE		RBS3-031
- CHOICE Downlink RLC mode		TM RLC		RBS3-032
- Segmentation indication		FALSE		RBS3-033
- RB mapping info				RBS3-034
- Information for each multiplexing				RBS3-035
option				RBS3-036
- RLC logical channel mapping		Not Present		RBS3-037
indicator		1		RBS3-038
- Number of uplink RLC logical		DCH		RBS3-039
channels		1		RBS3-040
- Uplink transport channel type		Not Present		RBS3-041
- UL Transport channel identity		Configured		RBS3-042
- Logical channel identity		7		RBS3-043
- CHOICE RLC size list				RBS3-044
- MAC logical channel priority				RBS3-045
info		1		RBS3-046
- Downlink RLC logical channel		DCH		
channels				
- Downlink transport channel type				

Information Element	Condition	Value/remark	Version	Index
- DL DCH Transport channel		6		RBS3-047
- DL DSCH Transport channel		Not Present		RBS3-048
- Logical channel identity		Not Present		RBS3-049
RAB information for setup list				RBS3-050
- RAB information for setup				RBS3-051
- RAB info				RBS3-052
- RAB identity		0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-053
- 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		No discard		RBS3-063
- CHOICE SDU discard mode				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
- Timer_poll		200		RBS3-071
- Poll_SDUs		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		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		1		RBS3-101

Information Element	Condition	Value/remark	Version	Index
channels		RACH Not Present 7 Explicit List Reference to clause 6 Parameter Set 8		RBS3-102 RBS3-103 RBS3-104 RBS3-105 RBS3-106 RBS3-107
- Uplink transport channel type				
- UL Transport channel identity				
- Logical channel identity				
- CHOICE RLC size list				
- RLC size index				
- MAC logical channel priority				
- Downlink RLC logical channel info				
- 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	Not Present		RBS3-116
- PRACH TFCS		TDD		RBS3-117
- CHOICE mode				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
- PRACH TFCS		(This IE is repeated for TFC number.)		RBS3-122
- CHOICE TFCI signalling		Normal		RBS3-123
- TFCI Field 1 information				RBS3-124
- TFCS complete				RBS3-125
reconfigure information				
- CHOICE TFCS Size		Number of used bits must be enough to cover all combinations of CTFC from clauses 6.		RBS3-126
		Refer to clause 6 Parameter Set		
- CTFC information		Not Present		RBS3-127
- CHOICE mode		TDD		RBS3-128
- Individual UL CCTrCH information		Not Present		RBS3-129
Deleted UL TrCH information list		Not Present		RBS3-130
Added or Reconfigured UL TrCH information list	A1	1		RBS3-131
- Added or Reconfigured UL TrCH information				RBS3-132
- Uplink transport channel type		DCH		RBS3-133
- UL Transport channel identity		1		RBS3-134
- TFS				RBS3-135
- CHOICE Transport channel type		Dedicated transport channels		RBS3-136
- Dynamic Transport Format Information				RBS3-137
- RLC size		Reference to clause 6.10 Parameter Set		RBS3-138
- Number of TBs and TTI List		(This IE is repeated for TFI number.)		RBS3-139
- Transmission Time Interval		Not Present		RBS3-140
- Number of Transport blocks		Reference to clause 6.10 Parameter Set		RBS3-141
- Transmission Time Interval		Not Present		RBS3-142
- Number of Transport blocks		1		RBS3-143
- CHOICE Logical channel List		ALL		RBS3-144
- Semi-static Transport Format Information				RBS3-145
- Transmission time interval		Reference to clause 6.10 Parameter Set		RBS3-146
- Type of channel coding		Reference to clause 6.10 Parameter Set		RBS3-147
- Coding Rate		Reference to clause 6.10 Parameter Set		RBS3-148
- Rate matching attribute		Reference to clause 6.10 Parameter Set		RBS3-149
- CRC size		Reference to clause 6.10 Parameter Set		RBS3-150
CHOICE mode	A1, A3	TDD (no data)		RBS3-151
DL Transport channel information	A1,A3			RBS3-152

Information Element	Condition	Value/remark	Version	Index
common for all transport channel <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters 		Not Present TDD Independent (Refer to clause 6)		RBS3-153 RBS3-154 RBS3-155
Deleted DL TrCH information list	A1,A3	Not Present		RBS3-156
Added or Reconfigured DL TrCH information list <ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value 	A1,A3	1 DCH 6 Same as UL DCH 1 Reference to clause 6		RBS3-157 RBS3-158 RBS3-159 RBS3-160 RBS3-161 RBS3-162 RBS3-163 RBS3-164 RBS3-165
Frequency info	A1,A3	Not Present		RBS3-166
Maximum allowed UL TX power		30dBm		RBS3-167
CHOICE channel requirement		Uplink DPCH info		RBS3-168
<ul style="list-style-type: none"> - Uplink DPCH power control info - CHOICE mode <ul style="list-style-type: none"> - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option <ul style="list-style-type: none"> - Individual timeslot 		TDD Reference to clause 6 Parameter set. Individually signalled 3.84 Mcps		RBS3-169 RBS3-170 RBS3-171 RBS3-172 RBS3-173 RBS3-174
interference info				RBS3-175
<ul style="list-style-type: none"> - Individual timeslot 				
interference		Values are used for open loop power control, clause 8 in 3GPP TS 25.331 [34]		RBS3-176
<ul style="list-style-type: none"> - DPCH Constant Value 		TDD Not Present		RBS3-177 RBS3-178
<ul style="list-style-type: none"> - CHOICE mode - Uplink Timing Advance Control - UL CCTrCH List - TFCS Id - Time info 		1		RBS3-179 RBS3-180 RBS3-181
<ul style="list-style-type: none"> - Activation time <ul style="list-style-type: none"> - Duration - Common timeslot info <ul style="list-style-type: none"> - 2nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length - First individual timeslot info - Timeslot number 		(256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite		RBS3-182 RBS3-183 RBS3-184 RBS3-185 RBS3-186 RBS3-187 RBS3-188 RBS3-189 RBS3-190 RBS3-191
<ul style="list-style-type: none"> - TFCI existence - Midamble shift and burst 		The number of an uplink timeslot that has unassigned codes.		RBS3-192 RBS3-193
type		TRUE		
<ul style="list-style-type: none"> - CHOICE TDD option - CHOICE Burst Type <ul style="list-style-type: none"> -Type 1 -Midamble 		3.84 Mcps		RBS3-194 RBS3-195 RBS3-196 RBS3-197
Allocation Mode		Default		
<ul style="list-style-type: none"> - Midamble 		As defined in 3GPP TS 25.221 [28]		RBS3-198
configuration burst type 1 and 3				
<ul style="list-style-type: none"> - First timeslot channelisation codes 		Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.		RBS3-199
<ul style="list-style-type: none"> - Channelisation code 		(i/SF) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.		RBS3-200
<ul style="list-style-type: none"> - 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.		RBS3-201
CHOICE Mode		TDD (no data)		RBS3-202
Downlink HS-PDSCH Information	A1,A3	Not Present	Rel-5	RBS3-203

Information Element	Condition	Value/remark	Version	Index
Downlink information common for all radio links	A1,A3	Maintain Not Present	RBS3-204	RBS3-205
- Downlink DPCH info common for all RL			RBS3-206	RBS3-207
- Timing indicator			RBS3-208	RBS3-209
- CFN-targetSFN frame offset			RBS3-210	RBS3-211
- Downlink DPCH power control information			RBS3-212	RBS3-213
- CHOICE mode		TDD	RBS3-209	RBS3-214
- DPC mode		0 (single)	RBS3-210	RBS3-215
- CHOICE TDD mode		3.84 Mcps (no data)	RBS3-211	RBS3-216
- Default DPCH Offset Value		Not Present	RBS3-212	RBS3-217
Downlink information for per radio link list	A1,A3		RBS3-213	RBS3-218
- Downlink information for each radio link		TDD	RBS3-214	RBS3-219
- CHOICE mode		Sync Case 1	RBS3-215	RBS3-220
- Primary CCPCH info		PCCPCH timeslot	RBS3-216	RBS3-221
- CHOICE SyncCase		0	RBS3-217	RBS3-222
- Timeslot			RBS3-218	RBS3-223
- Cell parameters ID			RBS3-219	RBS3-224
- SCTD indicator			RBS3-220	RBS3-225
- Downlink DPCH info for each RL		TDD	RBS3-221	RBS3-226
- CHOICE mode		1	RBS3-222	RBS3-227
- DL CCTrCH List		(256+CFN-(CFN mod 8 + 8))mod 256	RBS3-223	RBS3-228
- TFCS ID		infinite	RBS3-224	RBS3-229
- Time info		Reference to the present document	RBS3-225	RBS3-230
- Activation time		TRUE	RBS3-226	RBS3-231
- Duration		Reference to clause 6 Parameter set	RBS3-227	RBS3-232
- Common timeslot info		1	RBS3-228	RBS3-233
- 2 nd interleaving mode		Empty	RBS3-229	RBS3-234
- TFCI coding			RBS3-235	RBS3-235
- Puncturing limit			RBS3-236	RBS3-236
- Repetition period		The number of a downlink timeslot that has unassigned codes.	RBS3-237	RBS3-237
- Repetition length		TRUE	RBS3-238	RBS3-238
- Downlink DPCH timeslots			RBS3-239	RBS3-239
and codes			RBS3-240	RBS3-240
- Individual timeslot info			RBS3-241	RBS3-241
- Timeslot number			RBS3-242	RBS3-242
- TFCI existence			RBS3-243	RBS3-243
- Midamble shift and			RBS3-244	RBS3-244
burst type			RBS3-245	RBS3-245
- CHOICE TDD option		3.84 Mcps	RBS3-246	RBS3-246
- CHOICE Burst Type			RBS3-247	RBS3-247
- Type 1			RBS3-248	RBS3-248
- Midamble			RBS3-249	RBS3-249
Allocation Mode			RBS3-250	RBS3-250
- Midamble configuration burst type 1 and 3				
- First timeslot				
channelisation codes				
- 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..		
		(j/SF) where j is the highest numbered code that is being assigned in the slot.		
		Bitmap of the codes that are being assigned in the slot.		
		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.		
		Not Present		
		Not Present		
FACH			R99 and Rel-4 only	

Condition	Explanation
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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		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.		RBS1-002
Integrity check info		SS provides the value of this IE, from its internal counter.		RBS1-003
- message authentication code				RBS1-004
- RRC message sequence number				RBS1-005
Integrity protection mode info		Not Present		RBS1-006
Ciphering mode info		Not Present		RBS1-007
Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256		RBS1-008
New U-RNTI		Not Present		RBS1-009
New C-RNTI		Not Present		RBS1-010
New DSCH-RNTI		Not Present		RBS1-011
New H-RNTI		Not Present		R99 and Rel-4 only
RRC State indicator		CELL_DCH		RBS1-012
UTRAN DRX cycle length coefficient		Not Present		RBS1-013
CN information info		Not Present		RBS1-014
URA identity		Not Present		RBS1-015
- Signalling RB information to setup		Not Present		RBS1-016
- RAB information for setup list				RBS1-017
- RAB information for setup				RBS1-018
- RAB info				RBS1-019
- RAB identity				RBS1-020
		0000 0001B		RBS1-021
		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		
		CS domain		RBS1-022
		Not Present		RBS1-023
		UseT314		RBS1-024
				RBS1-025
				RBS1-026
		10		RBS1-027
		Not Present		RBS1-028
		RLC info		RBS1-029
		TM RLC		RBS1-030
		Not Present		RBS1-031
		FALSE		RBS1-032
		TM RLC		RBS1-033
		FALSE		RBS1-034
				RBS1-035
				RBS1-036
- RB identity		10		
- PDCP info		Not Present		RBS1-028
- CHOICE RLC info type		RLC info		RBS1-029
- CHOICE Uplink RLC mode		TM RLC		RBS1-030
- Transmission RLC discard		Not Present		RBS1-031
- Segmentation indication		FALSE		RBS1-032
- CHOICE Downlink RLC mode		TM RLC		RBS1-033
- Segmentation indication		FALSE		RBS1-034
- RB mapping info				RBS1-035
- Information for each multiplexing				RBS1-036
option		Not Present		
- RLC logical channel mapping		Not Present		RBS1-037
indicator		1		
- Number of uplink RLC logical		DCH		RBS1-038
channels		1		
- Uplink transport channel type		Not Present		RBS1-039
- UL Transport channel identity		Configured		RBS1-040
- Logical channel identity		7		RBS1-041
- CHOICE RLC size list		1		RBS1-042
- MAC logical channel priority		DCH		RBS1-043
- Downlink RLC logical channel info		6		RBS1-044
- Number of downlink RLC logical				RBS1-045
channels				
- Downlink transport channel type				RBS1-046
- DL DCH Transport channel				RBS1-047
identity				

Information Element	Condition	Value/remark	Version	Index
- DL DSCH Transport channel identity - Logical channel identity RAB information for setup list - RAB information for setup - RAB info	A3	Not Present Not Present		RBS1-048 RBS1-049 RBS1-050 RBS1-051 RBS1-052
- RAB identity		0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS1-053
- CN domain identity		PS domain		RBS1-054
- NAS Synchronization Indicator		Not Present		RBS1-055
- Re-establishment timer		UseT315		RBS1-056
- RB information to setup list				RBS1-057
- RB information to setup				RBS1-058
- RB identity		20		RBS1-059
- PDCP info		Not Present		RBS1-060
- CHOICE RLC info type		RLC info		RBS1-061
- CHOICE Uplink RLC mode		AM RLC		RBS1-062
- Transmission RLC discard				RBS1-063
- CHOICE SDU discard mode		No discard		RBS1-064
- MAX_DAT		15		RBS1-065
- Transmission window size		128		RBS1-066
- Timer_RST		500		RBS1-067
- Max_RST		4		RBS1-068
- Polling info				RBS1-069
- Timer_poll_prohibit		200		RBS1-070
- Timer_poll		200		RBS1-071
- Poll_SDU		1		RBS1-072
- Last transmission PDU poll		TRUE		RBS1-073
- Last retransmission PDU poll		TRUE		RBS1-074
- Poll_Windows		99		RBS1-075
- Timer_poll_periodic		Not Present		RBS1-076
- CHOICE Downlink RLC mode		AM RLC		RBS1-077
- In-sequence delivery		TRUE		RBS1-078
- Receiving window size		128		RBS1-079
- Downlink RLC status info				RBS1-080
- Timer_status_prohibit		200		RBS1-081
- Timer_EPC		200		RBS1-082
- Missing PDU indicator		TRUE		RBS1-083
- Timer_STATUS_periodic		Not Present		RBS1-084
- RB mapping info		2RBMsgOptions		RBS1-085
- Information for each multiplexing option		Not Present		RBS1-086
- RLC logical channel mapping indicator				RBS1-087
- Number of uplink RLC logical channels		1		RBS1-088
- Uplink transport channel type		DCH		RBS1-089
- UL Transport channel identity		1		RBS1-090
- Logical channel identity		Not Present		RBS1-091
- CHOICE RLC size list		Configured		RBS1-092
- MAC logical channel priority		8		RBS1-093
- Downlink RLC logical channel info				RBS1-094
- Number of downlink RLC logical channels		1		RBS1-095
- Downlink transport channel type		DCH		RBS1-096
- DL DCH Transport channel identity		6		RBS1-097
- DL DSCH Transport channel identity		Not Present		RBS1-098
- Logical channel identity		Not Present		RBS1-099
- RLC logical channel mapping indicator		Not Present		RBS1-100
- Number of uplink RLC logical channels		1		RBS1-101
- Uplink transport channel type		RACH		RBS1-102
- UL Transport channel identity		Not Present		RBS1-103

Information Element	Condition	Value/remark	Version	Index
- Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info		7 Explicit List Reference to clause 6 Parameter Set 8		RBS1-104 RBS1-105 RBS1-106 RBS1-107 RBS1-108
- Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity RB information to be affected list Downlink counter synchronization info UL Transport channel information for all transport channels - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information - TFC ID - Allowed Transport Format combination - PRACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - TFCS complete reconfigure information - CHOICE TFCS Size - CTFC information - CHOICE mode - Individual UL CCTrCH information Deleted UL TrCH information list Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size	A1,A3	1 FACH Not Present Not Present Not Present Not Present Not Present Not Present TDD (This IE is repeated for TFC number.) 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) (This IE is repeated for TFC number.) Normal Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set Not Present TDD Not Present Not Present 1 DCH 1 Dedicated transport channels Reference to clause 6 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6 Parameter Set Not Present 1 ALL Reference to clause 6 Parameter Set Reference to clause 6 Parameter Set TDD (no data)		RBS1-109 RBS1-110 RBS1-111 RBS1-112 RBS1-113 RBS1-114 RBS1-115 RBS1-116 RBS1-117 RBS1-118 RBS1-119 RBS1-120 RBS1-121 RBS1-122 RBS1-123 RBS1-124 RBS1-125 RBS1-126 RBS1-127 RBS1-128 RBS1-129 RBS1-130 RBS1-131 RBS1-132 RBS1-133 RBS1-134 RBS1-135 RBS1-136 RBS1-137 RBS1-138 RBS1-139 RBS1-140 RBS1-141 RBS1-142 RBS1-143 RBS1-144 RBS1-145 RBS1-146 RBS1-147 RBS1-148 RBS1-149 RBS1-150 RBS1-151 RBS1-152 RBS1-153 RBS1-154 RBS1-155 RBS1-156
DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters	A1,A3	Not Present TDD Independent (Refer to clause 6)		
Deleted DL TrCH information list	A1,A3	Not Present		

Information Element	Condition	Value/remark	Version	Index
Added or Reconfigured DL TrCH information list		1		RBS1-157
- Added or Reconfigured DL TrCH information				RBS1-158
- Downlink transport channel type		DCH		RBS1-159
- DL Transport channel identity		6		RBS1-160
- CHOICE DL parameters		Same as UL		RBS1-161
- Uplink transport channel type		DCH		RBS1-162
- UL TrCH identity		1		RBS1-163
- DCH quality target		Reference to clause 6		RBS1-164
- BLER Quality value		Not Present		RBS1-165
Frequency info		30dBm		RBS1-166
Maximum allowed UL TX power		Uplink DPCH info		RBS1-167
CHOICE channel requirement		TDD		RBS1-168
- Uplink DPCH power control info		Reference to clause 6 Parameter set.		RBS1-169
- CHOICE mode		Individually signalled		RBS1-170
- UL Target SIR		1.28 Mcps		RBS1-171
- CHOICE UL OL PC info		0 (1 dB)		RBS1-172
- CHOICE TDD option		Not Present		RBS1-173
- TPC step size		TDD		RBS1-174
- Primary CCPCH Tx Power		Not Present		RBS1-175
- CHOICE mode		1		RBS1-176
- Uplink Timing Advance Control		(256+CFN-(CFN MOD 8 + 8))MOD 256		RBS1-177
- UL CCTrCH List		Infinite		RBS1-178
- TFCS Id		Reference to clause 6 Parameter Set		RBS1-179
- Time info		Reference to clause 6 Parameter Set		RBS1-180
- Activation time		Reference to clause 6 Parameter Set		RBS1-181
- Duration		Reference to clause 6 Parameter Set		RBS1-182
- Common timeslot info		Reference to clause 6 Parameter Set		RBS1-183
- 2 nd interleaving mode		Reference to clause 6 Parameter Set		RBS1-184
- TFCI coding		Reference to clause 6 Parameter Set		RBS1-185
- Puncturing Limit		Reference to clause 6 Parameter Set		RBS1-186
- Repetition Period		Reference to clause 6 Parameter Set		RBS1-187
- Repetition Length		Reference to clause 6 Parameter Set		RBS1-188
- First individual timeslot info		The number of an uplink timeslot that has unassigned codes.		RBS1-189
- Timeslot number		TRUE		RBS1-190
- TFCI existence				RBS1-191
- Midamble shift and burst				RBS1-192
type		1.28 Mcps		RBS1-193
mode		Default		RBS1-194
		16		RBS1-195
		1.28 Mcps TDD		RBS1-196
		QPSK		RBS1-197
		1		RBS1-198
- CHOICE Mode		TDD		RBS1-199
- First timeslot channelisation codes		Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.		RBS1-200
		(i/SF) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.		RBS1-201
- Channelisation code				RBS1-202
- 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.		
CHOICE Mode		TDD (no data)		RBS1-203
Downlink HS-PDSCH Information	A1,A3	Not Present	Rel-5	RBS1-204
Downlink information common for all radio links	A1,A3			RBS1-205
- Downlink DPCH info common for all				RBS1-206
RL		Maintain		RBS1-207
- Timing indicator		Not Present		RBS1-208
- CFN-targetSFN frame offset				RBS1-209
- Downlink DPCH power control				

Information Element	Condition	Value/remark	Version	Index
information				
- CHOICE mode		TDD		RBS1-210
- TPC step size		1 dB		RBS1-211
- CHOICE TDD mode		1.28 Mcps		RBS1-212
- TSTD indicator		TRUE		RBS1-213
- Default DPCH Offset Value		Not Present		RBS1-214
Downlink information for per radio link list	A1,A3			RBS1-215
- Downlink information for each radio link				RBS1-216
- CHOICE mode		TDD		RBS1-217
- Primary CCPCH info		1.28 Mcps		RBS1-218
- CHOICE TDD option		TRUE		RBS1-219
- TSTD indicator		0		RBS1-220
- Cell parameters ID		FALSE		RBS1-221
- Block STTD indicator				RBS1-222
- Downlink DPCH info for each RL		TDD		RBS1-223
- CHOICE mode		1		RBS1-224
- DL CCTrCH List		(256+CFN-(CFN mod 8 + 8))mod 256		RBS1-225
- TFCS ID		Infinite		RBS1-226
- Time info		Reference to the present document		RBS1-227
- Activation time		TRUE		RBS1-228
- Duration		Reference to clause 6 Parameter set		RBS1-229
- Common timeslot info		1		RBS1-230
- 2 nd interleaving mode		Empty		RBS1-231
- TFCI coding				RBS1-232
- Puncturing limit				RBS1-233
- Repetition period				RBS1-234
- Repetition length				RBS1-235
- Downlink DPCH timeslots				RBS1-236
and codes				
- Individual timeslot info		The number of a downlink timeslot that has unassigned codes.		RBS1-237
- Timeslot number		TRUE		RBS1-238
				RBS1-239
				RBS1-240
burst type				
				RBS1-241
Mode		1.28 Mcps		RBS1-242
configuration		Default		
				RBS1-243
				RBS1-244
- SS-TPC Symbols		16		RBS1-245
- Modulation		QPSK		RBS1-246
codes		1		
- First timeslot channelisation				RBS1-247
- 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.		
- Last channelisation code		(j/SF) where j is the highest numbered code that is being assigned in the slot.		RBS1-248
- Bitmap		Bitmap of the codes that are being assigned in the slot.		RBS1-249
- 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.		RBS1-250
		Not Present		RBS1-251
- UL CCTrCH TPC List		Not Present		RBS1-252
-SCCPCH information for FACH			R99 and Rel-4 only	

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 (3.84 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				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		RBS3-012
CHOICE mode		TDD		RBS3-013
- New E-RNTI		Not Present		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		0000 0001B		RBS3-020
- RAB information for setup		The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-021
- RAB info		CS domain		RBS3-022
- RAB identity		Not Present		RBS3-023
- CN domain identity		UseT314		
- NAS Synchronization Indicator				RBS3-024
- Re-establishment timer				RBS3-025
- RB information to setup list				RBS3-026
- RB information to setup				RBS3-027
- RB identity		10		RBS3-028
- PDCP info		Not Present		RBS3-029
- CHOICE RLC info type		RLC info		RBS3-030
- CHOICE Uplink RLC mode		TM RLC		RBS3-031
- Transmission RLC discard		Not Present		RBS3-032
- Segmentation indication		FALSE		RBS3-033
- CHOICE Downlink RLC mode		TM RLC		RBS3-034
- Segmentation indication		FALSE		RBS3-035
- RB mapping info				RBS3-036
- Information for each multiplexing				RBS3-037
option				RBS3-038
- RLC logical channel mapping		Not Present		RBS3-039
indicator		1		RBS3-040
- Number of uplink RLC logical		DCH		RBS3-041
channels		1		RBS3-042
- Uplink transport channel type		Not Present		RBS3-043
- UL Transport channel identity		Configured		RBS3-044
- Logical channel identity		7		RBS3-045
- CHOICE RLC size list				RBS3-046
- MAC logical channel priority				
- Downlink RLC logical channel				
info				
- Number of downlink RLC logical		1		RBS3-047
channels		DCH		RBS3-048
- Downlink transport channel type		6		RBS3-049
- DL DCH Transport channel				
identity				
- DL DSCH Transport channel		Not Present		RBS3-050
identity				
- Logical channel identity		Not Present		RBS3-051
RAB information for setup list	A3			RBS3-052
- RAB information for setup				RBS3-053

Information Element	Condition	Value/remark	Version	Index
- RAB info				RBS3-054
- RAB identity		0000 0101B The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		RBS3-055
- 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 option		2RBMsgOptions		RBS3-088
- RLC logical channel mapping indicator		Not Present		RBS3-089
- Number of uplink RLC logical channels		1		RBS3-090
- 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 info				RBS3-096
- Number of downlink RLC logical channels		1		RBS3-097
- Downlink transport channel type		DCH		RBS3-098
- DL DCH Transport channel identity		6		RBS3-099
- DL DSCH Transport channel identity		Not Present		RBS3-100
- Logical channel identity		Not Present		RBS3-101
- RLC logical channel mapping indicator		Not Present		RBS3-102
- Number of uplink RLC logical channels		1		RBS3-103
- 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

Information Element	Condition	Value/remark	Version	Index
- 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 - Logical channel identity RB information to be affected list Downlink counter synchronization info UL Transport channel information for all transport channels - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information - TFCS ID - Allowed Transport Format combination - PRACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - TFCS complete reconfigure information - CHOICE TFCS Size - CTFC information - CHOICE mode - Individual UL CCTrCH information Deleted UL TrCH information list	A1,A3	1 FACH Not Present Not Present Not Present Not Present Not Present Not Present Not Present TDD (This IE is repeated for TFC number.) 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) (This IE is repeated for TFC number.) Normal Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set Not Present TDD Not Present Not Present	RBS3-110 RBS3-111 RBS3-112 RBS3-113 RBS3-114 RBS3-115 RBS3-116 RBS3-117 RBS3-118 RBS3-119 RBS3-120 RBS3-121 RBS3-122 RBS3-123 RBS3-124 RBS3-125 RBS3-126 RBS3-127 RBS3-128 RBS3-129 RBS3-130 RBS3-131 RBS3-132	
Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size	A1	1 DCH 1 Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to clause 6.10 Parameter Set Not Present 1 ALL Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set	RBS3-133 RBS3-134 RBS3-135 RBS3-136 RBS3-137 RBS3-138 RBS3-139 RBS3-140 RBS3-141 RBS3-142 RBS3-143 RBS3-144 RBS3-145 RBS3-146 RBS3-147 RBS3-148 RBS3-149 RBS3-150 RBS3-151 RBS3-152	
CHOICE mode	A1, A3	TDD (no data)		RBS3-153
DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters	A1,A3	Not Present TDD Independent (Refer to clause 6)		RBS3-154 RBS3-155 RBS3-156 RBS3-157
Deleted DL TrCH information list Added or Reconfigured DL TrCH information list	A1,A3	Not Present 1		RBS3-158 RBS3-159

Information Element	Condition	Value/remark	Version	Index
- Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value		DCH 6 Same as UL DCH 1 Reference to clause 6		RBS3-160 RBS3-161 RBS3-162 RBS3-163 RBS3-164 RBS3-165 RBS3-166 RBS3-167
Frequency info DTX-DRX timing information DTX-DRX information HS-SCCH less information MIMO parameters Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference info - Individual timeslot interference	A1,A3	Not Present Not Present Not Present Not Present Not Present 30dBm Uplink DPCH info TDD Reference to clause 6 Parameter set. Individually signalled 7.68 Mcps	Rel-7 Rel-7 Rel-7 Rel-7 Rel-7	RBS3-168 RBS3-169 RBS3-170 RBS3-171 RBS3-172 RBS3-173 RBS3-174 RBS3-175 RBS3-176 RBS3-177 RBS3-178 RBS3-179 RBS3-180 RBS3-181 RBS3-182
VHCR - Dynamic SF usage - First individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst - CHOICE TDD option - CHOICE Burst Type - Type 1 - Midamble		Values are used for open loop power control, clause 8 in 3GPP TS 25.331 [34] TDD Not Present 1 (256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set 7.68 Mcps TDD	Rel-7 Rel-7	RBS3-183 RBS3-184 RBS3-185 RBS3-186 RBS3-187 RBS3-188 RBS3-189 RBS3-190 RBS3-191 RBS3-192 RBS3-193 RBS3-194 RBS3-195 RBS3-196 RBS3-197
type - CHOICE TDD option - CHOICE Burst Type - Type 1 - Midamble		TRUE The number of an uplink timeslot that has unassigned codes. TRUE 7.68 Mcps TDD	Rel-7	RBS3-198 RBS3-199 RBS3-200 RBS3-201 RBS3-202 RBS3-203 RBS3-204 RBS3-205 RBS3-206
Allocation Mode - Midamble		Default		RBS3-207
configuration burst type 1 and 3 - CHOICE TDD option - First timeslot code list - Channelisation code - CHOICE more timeslots		As defined in 3GPP TS 25.221 [28] 7.68 Mcps TDD Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set. 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.	Rel-7	RBS3-208 RBS3-209 RBS3-210 RBS3-211

Information Element	Condition	Value/remark	Version	Index
- UL CCTrCH List to Remove CHOICE Mode		Not Present TDD (no data)		RBS3-212 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 Maintain Not Present	Rel-6	RBS3-215 RBS3-216 RBS3-217 RBS3-218 RBS3-219
- CHOICE DPCH info - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - MAC-d HFN initial value - CHOICE mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value - Mac-hs reset indicator		TDD 1 Not Present TDD TDD 7.68 Mcps TDD Not Present Not Present	Rel-7	RBS3-220 RBS3-221 RBS3-222 RBS3-223 RBS3-224 RBS3-225 RBS3-226 RBS3-227
Downlink information for per radio link list	A1,A3	7.68 Mcps TDD	Rel-7	RBS3-228 RBS3-229 RBS3-230 RBS3-231
- Downlink information for each radio link		Sync Case 1 PCCPCH timeslot 0		RBS3-232 RBS3-233 RBS3-234 RBS3-235
- CHOICE mode - Primary CCPCH info - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator		Downlink DPCH info for each RL TDD	Rel-6	RBS3-236 RBS3-237 RBS3-238 RBS3-239 RBS3-240
- CHOICE DPCH info - CHOICE mode - DL CCTrCH List - TFCS ID - Time info - Activation time - Duration		1 (256+CFN-(CFN mod 8 + 8))mod 256 infinite		RBS3-241 RBS3-242 RBS3-243
- Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length		Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set		RBS3-244 RBS3-245 RBS3-246 RBS3-247 RBS3-248
- Downlink DPCH timeslots and codes VHCR			Rel-7	RBS3-249
- Individual timeslot info - Timeslot number		The number of a downlink timeslot that has unassigned codes.		RBS3-250 RBS3-251
- TFCI existence - Midamble shift and burst type		TRUE		RBS3-252 RBS3-253
- CHOICE TDD option - CHOICE Burst Type - Type 1 - Midamble		7.68 Mcps TDD	Rel-7	RBS3-254 RBS3-255 RBS3-256 RBS3-257
Allocation Mode		Default		
- Midamble		As defined in 3GPP TS 25.221 [28]		RBS3-258
configuration burst type 1 and 3		7.68 Mcps	Rel-7	RBS3-259
- CHOICE TDD option			Rel-7	RBS3-260
- First timeslot 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..		RBS3-261
- First channelisation code		(j/SF) where j is the highest numbered code that is being assigned in the slot.		RBS3-262
- Last channelisation code		Bitmap of the codes that are being assigned in the slot.		RBS3-263
- Bitmap				
- 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		RBS3-264

Information Element	Condition	Value/remark	Version	Index
- UL CCTrCH TPC List		the first timeslot.		RBS3-265
- DL CCTrCH List to Remove		Not Present		RBS3-266
-SCCPCH information for FACH		Not Present		RBS3-267
- E-AGCH Info		Not Present	R99 and Rel-4 only	
- CHOICE E-HICH Information		Not Present	Rel-6	RBS3-268
- CHOICE E-RGCH Information		Not Present	Rel-6	RBS3-269
MBMS PL Service Restriction Information		Not Present	Rel-6	RBS3-270
		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
- 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

Information Element	Value/remark	Version	Index
- 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	Normal		RBSH-056
- CHOICE TFCI signalling	Complete reconfiguration		RBSH-057
- TFCI Field 1 information	2 bit CTFC		RBSH-058
- CHOICE TFCS representation	4 TFCs		RBSH-059
- TFCS complete reconfigure information	Reference to TS 34.122 clause C.2.1 Parameter Set		RBSH-060
- CHOICE CTFC Size			RBSH-061
- CTFC information			RBSH-062
- CTFC			RBSH-063
- Power offset information	Computed Gain Factors(The last TFC is set to Signalled Gain Factors)		RBSH-064
- CHOICE Gain Factors	0 Integer(0.. 3)		RBSH-065
- Reference TFC ID	Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)		RBSH-066
- CHOICE Gain Factors	0 Integer(0.. 3)		RBSH-067
- CHOICE mode	TDD		RBSH-068
- Gain factor β_d	8		RBSH-069
- Reference TFC ID	(Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)		
- CHOICE mode	0		RBSH-070
- TFC subset	TDD		RBSH-071
- CHOICE Subset representation	Not Present		RBSH-072
- TFC subset list	Full transport format combination set		RBSH-073
Deleted UL TrCH information list	Not Present		RBSH-074
Added or Reconfigured TrCH information list	Not Present		RBSH-075
CHOICE mode	Not Present		RBSH-076
DL Transport channel information common for all transport channel			RBSH-077
- SCCPCH TFCS	Not Present		RBSH-078
- CHOICE mode	TDD		RBSH-079
- Individual DL CCTrCH information	1 CCTrCh		RBSH-080
- DL TFCS identity	1		RBSH-081
- CHOICE DL parameters	Independent		RBSH-082
- DL TFCS			RBSH-083
- TFCI Field 1 Information	Complete reconfiguration		RBSH-084
- CHOICE TFCS representation	2 bit CTFC		RBSH-085
- TFCS complete reconfigure	4 TFCs		RBSH-086
- CHOICE CTFC Size	Reference to TS 34.122 [5] Annex C.3.1 Parameter Set		RBSH-087
- CTFC information			RBSH-088
- CTFC			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			RBSH-093
- Downlink transport channel type	HS-DSCH		RBSH-094
- DL Transport channel identity	Not Present	Rel-5	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.4 Fixed Reference Channels	Rel-5	RBSH-098
- CHOICE Memory Partitioning	Explicit	Rel-5	RBSH-099
- Memory size	Reference to TS34.122 [5] Annex C.4 Fixed	Rel-5	RBSH-100
		Rel-5	RBSH-101

Information Element	Value/remark	Version	Index
- Process Memory Size	Reference Channels parameter "Number of HARQ Processes".	Rel-5	RBSH-102
- Added or reconfigured MAC-d flow	Reference to TS34.122 [5] Annex C.4 Fixed	Rel-5	RBSH-103
- MAC-hs queue to add or reconfigure list	Reference Channels parameter "Number of SML's per HARQ Proc.". (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	Reference to TS34.122 [2] Annex C.4 Fixed	Rel-5	RBSH-109
- MAC-d PDU size	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	TDD		RBSH-118
- CHOICE mode	Not present		RBSH-119
- UL target SIR	Broadcast UL OL PC info		RBSH-120
- CHOICE UL OL PC info	TDD		RBSH-121
- CHOICE mode	Enabled		RBSH-122
- Uplink Timing Advance Control	3.84 Mcps TDD		RBSH-123
- CHOICE Timing Advance	Determined by observed timing deviation of the RACH at the node B		RBSH-124
- CHOICE TDD option	1 CCTrCh		RBSH-125
- UL Timing Advance	1		RBSH-126
- UL CCTrCH List	+20dB		RBSH-127
- TFCS Id	Not present		RBSH-128
- UL target SIR	Not present		RBSH-129
- Activation time	Not present		RBSH-130
- Duration	Not present		RBSH-131
- Common timeslot info	Reference to TS 34.122 clause C.2.1 Parameter Set		RBSH-132
- 2 nd 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	TRUE		RBSH-138
- Dynamic SF usage	The number of an uplink timeslot that has unassigned codes.		RBSH-139
- Timeslot number	TRUE		RBSH-140
- TFCI existence	3.84 Mcps		RBSH-141
- Midamble shift and burst type	Reference to TS 34.122 clause C.2.1 Parameter Set		RBSH-142
- CHOICE TDD option	Default		RBSH-143
- CHOICE Burst Type	Choose lowest possible Kcell value given burst type		RBSH-144
- Midamble Allocation Mode	3.84 Mcps TDD		RBSH-145
- Midamble configuration	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-146
- CHOICE TDD option	(i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C.2.1 Parameter Set.		RBSH-147
- First timeslot Code List	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		RBSH-148
- Channelisation code			RBSH-149
- CHOICE more timeslots			RBSH-150

Information Element	Value/remark	Version	Index
- UL CCTrCH List to Remove	they are being assigned. 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 CC16/x where x is a previously unassigned channelisation code in this TS	Rel-5	RBSH-163
- Channelisation code		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%, log10(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			RBSH-183
- Downlink information for each radio link	1		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
- 2 nd interleaving mode	Reference to TS 34.122 clause C.3.1 Parameter Set		RBSH-200
- TFCI coding	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	Reference to TS 34.122 clause C.3.1 Parameter Set		RBSH-203
- Repetition Length	Reference to TS 34.122 clause C.3.1 Parameter Set		RBSH-204

Information Element	Value/remark	Version	Index
- 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	3.84 Mcps	RBSH-209	
- CHOICE TDD option	Reference to TS 34.122 clause C.3.1 Parameter Set	RBSH-210	
- CHOICE Burst Type	Default	RBSH-211	
- Midamble Allocation Mode	Set Kcell to lowest possible value given the number of codes defined in TS 34.122 clause C.3.1 Parameter Set	RBSH-212	
- Midamble configuration	3.84 Mcps	RBSH-213	
- CHOICE TDD option	Consecutive codes	RBSH-214	
- First timeslot channelisation codes	(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-215	
- CHOICE codes representation	(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-216	
- First channelisation code		RBSH-217	
- Last channelisation code		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	
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 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	

Information Element	Value/remark	Version	Index
- 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 Parameter Set		RBSH-059
- Power offset information			RBSH-060
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to 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 Gain Factors is set to ComputedGain Factors)		RBSH-063
- CHOICE mode	TDD		RBSH-064
- Gain Factor β_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
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

Information Element	Value/remark	Version	Index
- 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 Memory Partitioning	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
- PRX _{PDPCHdes}	Integer (-120...-58 by step of 1)		RBSH-117
- CHOICE UL OL PC info			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) 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 nd 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
- 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

Information Element	Value/remark	Version	Index
- 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 _{HS-SICH}			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 _{HS-SICH}			RBSH-186
- TPC step size	1dB		RBSH-187
- 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

Information Element	Value/remark	Version	Index
- Midamble Allocation mode	Default midamble		RBSH-197
- Midamble configuration	8		RBSH-198
- Ack-Nack Power Offset	0		RBSH-199
- PRX _{HS-SICH}			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 _{HS-SICH}			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 nd 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
- 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 Sysbols	Not Present		RBSH-255
- First timeslot channelisation codes	TDD		RBSH-256

Information Element	Value/remark	Version	Index
- 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)		RBS7-022
- RAB identity	0000 0110B		RBS7-023
The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.			
- 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	Rel-5	RBS7-033
- One sided RLC re-establishment	FALSE	Rel-5	RBS7-034
- RB mapping info	1 RBMuxOptions		RBS7-035
- Information for each multiplexing option	Not Present		RBS7-036
- RLC logical channel mapping indicator			RBS7-037
- Downlink RLC logical channel info	1		RBS7-038
- Number of downlink RLC logical channels	HS-DSCH		RBS7-039
- Downlink transport channel type	Not Present		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

Information Element	Value/remark	Version	Index
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	1		RBS7-053
- TFCS ID	FALSE		RBS7-054
- Shared Channel Indicator			RBS7-055
- UL TFCS	Normal		RBS7-056
- CHOICE TFCI signalling	Complete reconfiguration		RBS7-057
- TFCI Field 1 information	2 bit CTFC		RBS7-058
- CHOICE TFCS representation	4 TFCs		RBS7-060
- TFCS complete reconfigure information	Reference to TS 34.122 clause C.2.1 Parameter Set		RBS7-061
- CHOICE CTFC Size	Computed Gain Factors(The last TFC is set to Signalled Gain Factors)		RBS7-062
- CTFC information	0 Integer(0.. 3)		RBS7-063
- CTFC	Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)		RBS7-064
- Power offset information	TDD		RBS7-065
- CHOICE Gain Factors	8		RBS7-066
- Reference TFC ID	(Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)		RBS7-067
- CHOICE Gain Factors	0		RBS7-068
- CHOICE mode	TDD		RBS7-069
- Gain factor β_d	Not Present		RBS7-070
- Reference TFC ID	Full transport format combination set		RBS7-071
- CHOICE mode			RBS7-072
- TFC subset			RBS7-073
- CHOICE Subset representation			RBS7-074
- TFC subset list			RBS7-075
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
- TFCI Field 1 Information	Complete reconfiguration		RBS7-085
- CHOICE TFCS representation	2 bit CTFC		RBS7-086
- TFCS complete reconfigure	4 TFCs		RBS7-087
- CHOICE CTFC Size	Reference to TS 34.122 [5] Annex C.3.1 Parameter Set		RBS7-088
- CTFC information	Not Present		RBS7-089
- CTFC			RBS7-090
- Power offset information			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
- 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 Memory Partitioning	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	Rel-5	RBS7-102

Information Element	Value/remark	Version	Index
- Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue Id - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target	Reference Channels parameter "Number of SML's per HARQ Proc.". (one queue) 0 0 160 16 Reference to TS34.122 [2] Annex C.4 Fixed Reference Channels 0 Not present Not present	Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5	RBS7-103 RBS7-104 RBS7-105 RBS7-106 RBS7-107 RBS7-108 RBS7-109 RBS7-110 RBS7-111 RBS7-112 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 RBS7-122 RBS7-123 RBS7-124 RBS7-125 RBS7-126 RBS7-127 RBS7-128 RBS7-129 RBS7-130
- Uplink DPCH power control info - CHOICE mode - UL target SIR - CHOICE UL OL PC info - CHOICE mode - Uplink Timing Advance Control - CHOICE Timing Advance - CHOICE TDD option - UL Timing Advance - UL CCTrCH List - TFCS Id - UL target SIR - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length - CHOICE mode - Uplink DPCH timeslots and codes VHCR - Dynamic SF usage - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration - CHOICE TDD option - First timeslot Code List - Channelisation code - CHOICE more timeslots	TDD Not present Broadcast UL OL PC info TDD Enabled 7.68 Mcps TDD Determined by observed timing deviation of the RACH at the node B 1 CCTrCh 1 +20dB Not present Not present Reference to TS 34.122 clause C.2.1 Parameter Set Reference to TS 34.122 clause C.2.1 Parameter Set Reference to TS 34.122 clause C.2.1 Parameter Set 1 1 7.68 Mcps TDD TRUE The number of an uplink timeslot that has unassigned codes. TRUE 7.68 Mcps TDD Reference to TS 34.122 clause C.2.1 Parameter Set Default Choose lowest possible Kcell value given burst type 7.68 Mcps TDD 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. (i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C.2.1 Parameter Set. The presence of this IE depends upon the number	Rel-7 Rel-7	RBS7-131 RBS7-132 RBS7-133 RBS7-134 RBS7-135 RBS7-136 RBS7-137 RBS7-138 RBS7-139 RBS7-140 RBS7-141 RBS7-142 RBS7-143 RBS7-144 RBS7-145 RBS7-146 RBS7-147 RBS7-148 RBS7-149 RBS7-150 RBS7-151 RBS7-152 RBS7-153 RBS7-154 RBS7-155

Information Element	Value/remark	Version	Index
- UL CCTrCH List to Remove	of resources specified in TS 34.122 clause C.2.1 Parameter Set and the number of slots in which they are being assigned. Not present		RBS7-156
E-DCH Info	Not present	Rel-6	RBS7-157
Downlink HS-PDSCH Information		Rel-5	RBS7-158
- HS-SCCH Info	TDD	Rel-5	RBS7-159
- CHOICE mode	7.68 Mcps TDD	Rel-5	RBS7-160
- CHOICE TDD option	0dB	Rel-7	RBS7-161
- Ack-Nack Power Offset	0dB	Rel-5	RBS7-162
- HS-SICH Power Control Info	-10dB	Rel-5	RBS7-163
- UL SIR target	Not present	Rel-5	RBS7-164
- HS-SICH Constant Value	4	Rel-5	RBS7-165
- D _{hs-sync}	The timeslot in which HS-SCCH is to be configured CC32/x where x is a previously unassigned channelisation code in this TS	Rel-6	RBS7-166
- HS-SCCH Set Configuration	Default	Rel-5	RBS7-167
- Timeslot number	8	Rel-5	RBS7-168
- Channelisation code	-2.4 (note that this equates to a BLER target of 0.4%, log10(0.004) = -2.4)	Rel-5	RBS7-169
- Midamble Allocation mode	The timeslot in which HS-SICH has been configured	Rel-5	RBS7-170
- Midamble configuration	CC32/x where x is a previously unassigned channelisation code in this TS	Rel-5	RBS7-171
- BLER target	Default	Rel-5	RBS7-172
- HS-SICH configuration	8	Rel-5	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	TDD	Rel-5	RBS7-178
- CHOICE mode	7.68 Mcps TDD	Rel-5	RBS7-179
- CHOICE TDD option	Reference to TS 34.122 clause C.4.1 Parameter Set	Rel-7	RBS7-180
- HS-PDSCH Timeslot Configuration VHCR	Reference to TS 34.122 clause C.4.1 Parameter Set	Rel-5	RBS7-181
- HS-PDSCH Timeslot Configuration List	The timeslot(s) in which HS-HS-DSCH is to be configured	Rel-5	RBS7-182
- Timeslot Number	Reference to TS 34.122 clause C.4.1 Parameter Set	Rel-5	RBS7-183
- CHOICE Burst Type	Default	Rel-5	RBS7-184
- Midamble Allocation Mode	Reference to TS 34.122 clause C.4.1 Parameter Set	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	7.68 Mcps TDD	Rel-7	RBS7-189
- Choice mode	TDD	Rel-7	RBS7-190
- Primary CCPCH info	7.68 Mcps TDD	Rel-7	RBS7-191
- Choice mode	Sync Case 1	Rel-7	RBS7-192
- CHOICE TDD option	Set to Timeslot containing PCCPCH	Rel-7	RBS7-193
- CHOICE SyncCase	10	Rel-7	RBS7-194
- Timeslot	FALSE	Rel-7	RBS7-195
- Cell parameters ID	Downlink DPCH info for each RL	Rel-7	RBS7-196
- SCTD indicator	TDD	Rel-7	RBS7-197
- CHOICE DPCH info	1 CCTrCh	Rel-7	RBS7-198
- CHOICE mode	1	Rel-7	RBS7-199
- DL CCTrCH List	Not Present	Rel-7	RBS7-200
- TFCS ID	Not Present	Rel-7	RBS7-201
- Activation time	Reference to TS 34.122 clause C.3.1 Parameter Set	Rel-7	RBS7-202
- Duration	Reference to TS 34.122 clause C.3.1 Parameter Set	Rel-7	RBS7-203
- Common timeslot info	Reference to TS 34.122 clause C.3.1 Parameter Set	Rel-7	RBS7-204
- 2 nd interleaving mode	Reference to TS 34.122 clause C.3.1 Parameter Set	Rel-7	RBS7-205
- TFCI coding	Reference to TS 34.122 clause C.3.1 Parameter Set	Rel-7	RBS7-206
- Puncturing Limit	Reference to TS 34.122 clause C.3.1 Parameter Set	Rel-7	RBS7-207
- Repetition Period	Reference to TS 34.122 clause C.3.1 Parameter Set	Rel-7	RBS7-208

Information Element	Value/remark	Version	Index
- 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	Consecutive codes	Rel-7	RBS7-220
- CHOICE codes representation	(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.		RBS7-221
- First channelisation code			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
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		

Information Element	Value/remark	Version	Index
- CN domain identity	most significant bit of the RAB identity.		RBSE3-024
- NAS Synchronization Indicator	PS domain		RBSE3-025
- Re-establishment timer	Not Present		RBSE3-026
- RB information to setup	UseT315		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	Rel-5	RBSE3-033
- One sided RLC re-establishment	FALSE	Rel-5	RBSE3-034
- RB mapping info			RBSE3-035
- Information for each multiplexing option	1 RBMuxOptions		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	rvttable		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
- CHOICE Memory Partitioning	Explicit	Rel-5	RBSE3-074
- Memory size	Reference to TS34.122 Annex C Fixed Reference Channels	Rel-5	RBSE3-075
- Process Memory Size	Reference to TS34.122 Annex C Fixed Reference Channels	Rel-5	RBSE3-076
- Added or reconfigured MAC-d flow		Rel-5	RBSE3-077
- MAC-hs queue to add or reconfigure list	(one queue)	Rel-5	RBSE3-078
- MAC-hs queue Id	0	Rel-5	RBSE3-079
- MAC-d Flow Identity	0	Rel-5	RBSE3-080
- T1	50	Rel-5	RBSE3-081

Information Element	Value/remark	Version	Index
- MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size - MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target	16 Reference to TS34.122 [2] Annex C Fixed Reference Channels 0 Not present Not present	Rel-5 Rel-5 Rel-5 Rel-5 Rel-5 Rel-5	RBSE3-082 RBSE3-083 RBSE3-084 RBSE3-085 RBSE3-086 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 - Uplink DPCH power control info - CHOICE mode - UL target SIR - CHOICE UL OL PC info - CHOICE mode - Uplink Timing Advance Control - CHOICE Timing Advance - CHOICE TDD option - UL Timing Advance - UL CCTrCH List - TFCS Id - UL target SIR - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length - Uplink DPCH timeslots and codes - Dynamic SF usage - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration - CHOICE TDD option - First timeslot Code List - Channelisation code - CHOICE more timeslots - UL CCTrCH List to Remove	TDD Not present Broadcast UL OL PC info TDD Enabled 3.84 Mcps TDD Determined by observed timing deviation of the RACH at the node B 1 CCTrCh 1 +20dB Not present Not present Reference to TS 34.122 clause C.2.1 Parameter Set Reference to TS 34.122 clause C.2.1 Parameter Set Reference to TS 34.122 clause C.2.1 Parameter Set 1 1 TRUE The number of an uplink timeslot that has unassigned codes. TRUE 3.84 Mcps Reference to TS 34.122 clause C.2.1 Parameter Set Default Choose lowest possible Kcell value given burst type 3.84 Mcps TDD 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. (i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C.2.1 Parameter Set. 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. Not present	Rel-6	RBSE3-091 RBSE3-092 RBSE3-093 RBSE3-094 RBSE3-095 RBSE3-096 RBSE3-097 RBSE3-098 RBSE3-099 RBSE3-100 RBSE3-101 RBSE3-102 RBSE3-103 RBSE3-104 RBSE3-105 RBSE3-106 RBSE3-107 RBSE3-108 RBSE3-109 RBSE3-110 RBSE3-111 RBSE3-112 RBSE3-113 RBSE3-114 RBSE3-115 RBSE3-116 RBSE3-117 RBSE3-118 RBSE3-119 RBSE3-120 RBSE3-121 RBSE3-122 RBSE3-123 RBSE3-124 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 persistance scaling	0.9		RBSE3-132
- T-RUCCH	100ms		RBSE3-133

Information Element	Value/remark	Version	Index
- E-RUCCCH timeslot number	Not Present		RBSE3-134
- E-RUCCCH 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
- $N_{E-UCCCH}$	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 Burst Type	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			
- HS-SCCH Info		Rel-5	RBSE3-159
- CHOICE mode	TDD	Rel-5	RBSE3-160
- CHOICE TDD option	3.84 Mcps TDD	Rel-5	RBSE3-161
- Ack-Nack Power Offset	0dB	Rel-5	RBSE3-162
- HS-SICH Power Control Info		Rel-5	RBSE3-163
- UL SIR target	0dB	Rel-5	RBSE3-164
- HS-SICH Constant Value	-10dB	Rel-5	RBSE3-165
- $D_{hs-sync}$	Not present	Rel-6	RBSE3-166
- HS-SCCH Set Configuration	4	Rel-5	RBSE3-167
- Timeslot number	The timeslot in which HS-SCCH is to be configured CC16/x where x is a previously unassigned channelisation code in this TS	Rel-5	RBSE3-168
- Channelisation code		Rel-5	RBSE3-169
- Midamble Allocation mode	Default	Rel-5	RBSE3-170
- Midamble configuration	8	Rel-5	RBSE3-171
- BLER target	-2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$)	Rel-5	RBSE3-172
- HS-SICH configuration		Rel-5	RBSE3-173
- Timeslot number	The timeslot in which HS-SICH has been configured CC16/x where x is a previously unassigned channelisation code in this TS	Rel-5	RBSE3-174
- Channelisation code		Rel-5	RBSE3-175
- Midamble Allocation mode	Default	Rel-5	RBSE3-176
- Midamble configuration	8	Rel-5	RBSE3-177
- Measurement Feedback Info		Rel-5	RBSE3-178
- CHOICE mode	TDD	Rel-5	RBSE3-179
- CHOICE TDD option	3.84 Mcps TDD	Rel-5	RBSE3-180
- HS-PDSCH Timeslot Configuration		Rel-5	RBSE3-181
- HS-PDSCH Timeslot Configuration List	Reference to TS 34.122 clause C.4.1 Parameter	Rel-5	RBSE3-182
		Rel-5	RBSE3-183

Information Element	Value/remark	Version	Index
- Timeslot Number	Set The timeslot(s) in which HS-HS-DSCH is to be configured	Rel-5	RBSE3-184
- CHOICE Burst Type	Reference to TS 34.122 clause C.4.1 Parameter 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	TDD		RBSE3-190
- Choice mode	TDD		RBSE3-191
- Primary CCPCH info	3.84 Mcps TDD		RBSE3-192
- Choice mode	Sync Case 1		RBSE3-193
- CHOICE TDD option	Set to Timeslot containing PCCPCH		RBSE3-194
- CHOICE SyncCase	10		RBSE3-195
- Timeslot	FALSE		RBSE3-196
- Cell parameters ID	Downlink DPCH info for each RL		RBSE3-197
- SCTD indicator			RBSE3-198
- CHOICE DPCH info			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 and writes to this IE. The first/ leftmost bit of the bit 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 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)		RBSE7-022
- RAB identity	0000 0110B		RBSE7-023
- CN domain identity	The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.		
- NAS Synchronization Indicator	PS domain		RBSE7-024
- Re-establishment timer	Not Present		RBSE7-025
- RB information to setup	UseT315		RBSE7-026
- RB identity	25		RBSE7-027
- PDCP info	Not Present		RBSE7-028
- CHOICE RLC info type	RLC info		RBSE7-029
- CHOICE Uplink RLC mode	Not Present		RBSE7-030
- CHOICE Downlink RLC mode	UM RLC		RBSE7-031
- DL UM RLC LI size	7	Rel-5	RBSE7-032
- One sided RLC re-establishment	FALSE	Rel-5	RBSE7-033
- RB mapping info	1 RBMuxOptions		RBSE7-034
- Information for each multiplexing option	Not Present		RBSE7-035
- RLC logical channel mapping indicator			RBSE7-036
			RBSE7-037

Information Element	Value/remark	Version	Index
- 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 - DL HS-DSCH MAC-d flow identity - Logical channel identity	1 HS-DSCH Not Present Not Present 0 Not Present		RBSE7-038 RBSE7-039 RBSE7-040 RBSE7-041 RBSE7-042 RBSE7-043 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		RBSE7-067
- Added or Reconfigured DL TrCH information			RBSE7-068
- Downlink transport channel type	HS-DSCH	Rel-5	RBSE7-069
- DL Transport channel identity	Not Present		RBSE7-070
- CHOICE DL parameters	HS-DSCH	Rel-5	RBSE7-071
- HARQ Info		Rel-5	RBSE7-072
- Number of Processes	Reference to TS34.122 Annex C Fixed Reference Channels	Rel-5	RBSE7-073
- CHOICE Memory Partitioning	Explicit	Rel-5	RBSE7-074
- Memory size	Reference to TS34.122 Annex C Fixed Reference Channels	Rel-5	RBSE7-075
- Process Memory Size	Reference to TS34.122 Annex C Fixed Reference Channels	Rel-5	RBSE7-076
- Added or reconfigured MAC-d flow		Rel-5	RBSE7-077
- MAC-hs queue to add or reconfigure list	(one queue)	Rel-5	RBSE7-078
- MAC-hs queue Id	0	Rel-5	RBSE7-079
- MAC-d Flow Identity	0	Rel-5	RBSE7-080
- T1	50	Rel-5	RBSE7-081
- MAC-hs window size	16	Rel-5	RBSE7-082
- MAC-d PDU size Info	Reference to TS34.122 Annex C Fixed Reference Channels	Rel-5	RBSE7-083
- MAC-d PDU size	0	Rel-5	RBSE7-084
- MAC-d PDU size index	Reference to TS34.122 Annex C Fixed Reference Channels	Rel-5	RBSE7-085
- MAC-hs queue to delete list	0	Rel-5	RBSE7-086
- DCH quality target	Not present	Rel-5	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

Information Element	Value/remark	Version	Index
- CHOICE mode	TDD		RBSE7-096
- Uplink Timing Advance Control	Enabled		RBSE7-097
- CHOICE Timing Advance	7.68 Mcps TDD		RBSE7-098
- CHOICE TDD option	Determined by observed timing deviation of the RACH at the node B		RBSE7-099
- UL Timing Advance	1 CCTrCh		RBSE7-100
- UL CCTrCH List	1		RBSE7-101
- TFCS Id	+20dB		RBSE7-102
- UL target SIR	Not present		RBSE7-103
- Activation time	Not present		RBSE7-104
- Duration			RBSE7-105
- Common timeslot info	Reference to TS34.122 Annex C Fixed Reference Channels		RBSE7-106
- 2 nd 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	TRUE		RBSE7-112
- Dynamic SF usage	The number of an uplink timeslot that has unassigned codes.		RBSE7-113
- Timeslot number	TRUE		RBSE7-114
- TFCI existence			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 persistance 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
- 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

Information Element	Value/remark	Version	Index
- 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 Burst Type	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			
- HS-SCCH Info		Rel-5	RBSE7-159
- CHOICE mode	TDD	Rel-5	RBSE7-160
- CHOICE TDD option	7.68 Mcps TDD	Rel-5	RBSE7-161
- Ack-Nack Power Offset	0dB	Rel-5	RBSE7-162
- HS-SICH Power Control Info		Rel-5	RBSE7-163
- UL SIR target	0dB	Rel-5	RBSE7-164
- HS-SICH Constant Value	-10dB	Rel-5	RBSE7-165
- $D_{hs-sync}$	Not present	Rel-6	RBSE7-166
- HS-SCCH Set Configuration	4	Rel-5	RBSE7-167
- Timeslot number	The timeslot in which HS-SCCH is to be configured CC32/x where x is a previously unassigned channelisation code in this TS	Rel-5	RBSE7-168
- Channelisation code		Rel-5	RBSE7-169
- Midamble Allocation mode	Default	Rel-5	RBSE7-170
- Midamble configuration	8	Rel-5	RBSE7-171
- BLER target	-2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$)	Rel-5	RBSE7-172
- HS-SICH configuration		Rel-5	RBSE7-173
- Timeslot number	The timeslot in which HS-SICH has been configured CC32/x where x is a previously unassigned channelisation code in this TS	Rel-5	RBSE7-174
- Channelisation code		Rel-5	RBSE7-175
- Midamble Allocation mode	Default	Rel-5	RBSE7-176
- Midamble configuration	8	Rel-5	RBSE7-177
- Measurement Feedback Info		Rel-5	RBSE7-178
- CHOICE mode	TDD	Rel-5	RBSE7-179
- CHOICE TDD option	7.68 Mcps TDD	Rel-5	RBSE7-180
- HS-PDSCH Timeslot Configuration		Rel-5	RBSE7-181
- HS-PDSCH Timeslot Configuration List	Reference to TS 34.122 clause C.4.1 Parameter Set	Rel-5	RBSE7-182
- Timeslot Number	The timeslot(s) in which HS-HS-DSCH is to be configured	Rel-5	RBSE7-183
- CHOICE Burst Type	Reference to TS 34.122 clause C.4.1 Parameter Set	Rel-5	RBSE7-184
- Midamble Allocation Mode	Default	Rel-5	RBSE7-185
- Midamble configuration burst type 1 and 3	8	Rel-5	RBSE7-186
Downlink information common for all radio links	Not Present		RBSE7-187
Downlink information per radio link list			
- Downlink information for each radio link	1		RBSE7-188
- Choice mode	TDD		RBSE7-189
- Primary CCPCH info			RBSE7-190
- Choice mode	TDD		RBSE7-191
- CHOICE TDD option	7.68 Mcps TDD		RBSE7-192
- CHOICE SyncCase	Sync Case 1		RBSE7-193
			RBSE7-194
			RBSE7-195

Information Element	Value/remark	Version	Index
- 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. 0000 0000 0001B 0000 0000 0000 0000 0001B	R99, Rel-4
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. - U-RNTI - SRNC identity - S-RNTI - Group identity - Group release information	Rel-5
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 - RRC Message sequence number	
N308	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.	
Release cause	2 (for CELL_DCH state). Not Present (for UE in other connected mode states).	
Rplmn information	Normal event 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 requirement	FALSE		RCS3-012
- UE radio access TDD capability update requirement	TRUE		RCS3-013
- System specific capability update requirement	GSM		RCS3-014
list			
CHOICE specification mode	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

Information Element	Value/remark	Version	Index
- 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	No Discard	RCS3-058	
- SDU discard mode	415	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	
- Missing PDU indicator	TRUE	RCS3-079	
- Timer_STATUS_periodic	Not Present	RCS3-080	
- RB mapping info	2 RBMuxOptions	RCS3-081	
- Information for each multiplexing option	Not Present	RCS3-082	
- RLC logical channel mapping indicator	1	RCS3-083	
- Number of RLC logical channels	DCH	RCS3-084	
- Uplink transport channel type	5	RCS3-085	
- UL Transport channel identity	2	RCS3-086	
- Logical channel identity	Configured	RCS3-087	
- CHOICE RLC size list		RCS3-088	

Information Element	Value/remark	Version	Index
- MAC logical channel priority	2		RCS3-089
- Downlink RLC logical channel info	1		RCS3-090
- Number of RLC logical channels	DCH		RCS3-091
- Downlink transport channel type	10		RCS3-092
- DL DCH Transport channel identity	Not Present		RCS3-093
- DL DSCH Transport channel identity	2		RCS3-094
- Logical channel identity			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	1		RCS3-104
- Number of RLC logical channels	FACH		RCS3-105
- Downlink transport channel type	Not Present		RCS3-106
- DL DCH Transport channel identity	Not Present		RCS3-107
- DL DSCH Transport channel identity	2		RCS3-108
- Logical channel identity			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	AM RLC		RCS3-113
- CHOICE Uplink RLC mode	No Discard		RCS3-114
- Transmission RLC discard	415		RCS3-115
- SDU discard mode	128		RCS3-116
- MAX_DAT	500		RCS3-117
- Transmission window size	4		RCS3-118
- Timer_RST	200		RCS3-119
- Max_RST	200		RCS3-120
- Polling info	Not Present		RCS3-121
- Timer_poll_prohibit	1		RCS3-122
- Timer_poll	200		RCS3-123
- Poll_PDU	Not Present		RCS3-124
- Poll_SDU	TRUE		RCS3-125
- Last transmission PDU poll	99		RCS3-126
- Last retransmission PDU poll	Not Present		RCS3-127
- Poll_Windows	TRUE		RCS3-128
- Timer_poll_periodic	200		RCS3-129
- CHOICE Downlink RLC mode	Not Present		RCS3-130
- In-sequence delivery	AM RLC		RCS3-131
- Receiving window size	TRUE		RCS3-132
- Downlink RLC status info	128		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	2 RBMuxOptions		RCS3-138
- Information for each multiplexing option	Not Present		RCS3-139
- RLC logical channel mapping indicator	1		RCS3-140
- Number of RLC logical channels	DCH		RCS3-141
- Uplink transport channel type	5		RCS3-142
- UL Transport channel identity	3		RCS3-143
- Logical channel identity	Configured		RCS3-144
- CHOICE RLC size list	3		RCS3-145
- MAC logical channel priority			RCS3-146
- Downlink RLC logical channel info	1		RCS3-147
- Number of RLC logical channels	DCH		RCS3-148
- Downlink transport channel type	10		RCS3-149
- DL DCH Transport channel identity	Not Present		RCS3-150
- DL DSCH Transport channel identity	3		RCS3-151
- Logical channel identity	Not Present		RCS3-152
- RLC logical channel mapping indicator	1		RCS3-153
- Number of RLC logical channels	RACH		RCS3-154
- Uplink transport channel type			RCS3-155

Information Element	Value/remark	Version	Index
- 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	1	RCS3-161	
- Number of RLC logical channels		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	No Discard	RCS3-172	
- SDU discard mode	15	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	
- 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	

Information Element	Value/remark	Version	Index
- Logical channel identity UL Transport channel information for all transport channels - PRACH TFCS - CHOICE Mode - Individual UL CCTrCH information - UL TFCS ID	4 Not Present TDD (This IE is repeated for TFC number.)		RCS3-223 RCS3-224 RCS3-225 RCS3-226 RCS3-227 RCS3-228
- UL TFCS - TFC subset - Allowed Transport Format combination - PRACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - TFCS complete reconfigure information - CHOICE TFCS Size - CTFC information - CHOICE mode - Individual UL CCTrCH information	Default value is the complete existing set of transport format combinations 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) (This IE is repeated for TFC number.) Normal Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set Not Present TDD Not Present Not Present		RCS3-229 RCS3-230 RCS3-231 RCS3-232 RCS3-233 RCS3-234 RCS3-235 RCS3-236 RCS3-237 RCS3-238 RCS3-239 RCS3-240 RCS3-241 RCS3-242 RCS3-243 RCS3-244 RCS3-245 RCS3-246 RCS3-247 RCS3-248 RCS3-249 RCS3-250 RCS3-251 RCS3-252 RCS3-253 RCS3-254 RCS3-255 RCS3-256 RCS3-257 RCS3-258 RCS3-259 RCS3-260 RCS3-261 RCS3-262 RCS3-263 RCS3-264 RCS3-265 RCS3-266 RCS3-267 RCS3-268 RCS3-269 RCS3-270 RCS3-271 RCS3-272 RCS3-273 RCS3-274 RCS3-275 RCS3-276 RCS3-277 RCS3-278 RCS3-279 RCS3-280 RCS3-281 RCS3-282
Deleted TrCH information list Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - CHOICE mode - Transmission Time Interval - CHOICE Logical channel list - Semi-static Transport Format information	1 DCH 5 Dedicated transport channels According to clause 6 (This IE is repeated for TFI number) TDD According to clause 6 All		
DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters	Not Present TDD Same as UL		
Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH Identity - DCH quality target - BLER Quality value	1 DCH 10 Same as UL DCH 5 Reference to the present document		
Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - CHOICE <i>TDD option</i> - UL target SIR - CHOICE mode - CHOICE <i>UL OL PC info</i> - CHOICE <i>TDD option</i> - Individual timeslot interference info - Individual timeslot interference - DPCH Constant Value - Primary CCPCH Tx Power - Time info - Activation time	Not Present Not Present Uplink DPCH info TDD 3.84 Mcps Reference to clause 6 Parameter set TDD Individually signalled 3.84 Mcps Not Present Not Present (256+CFN-(CFN MOD 8 + 8))MOD 256		

Information Element	Value/remark	Version	Index
- Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length	Infinite Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set		RCS3-283 RCS3-284 RCS3-285 RCS3-286 RCS3-287 RCS3-288 RCS3-289
- Uplink DPCH timeslots and codes - CPCH SET Info	Default is to use the old timeslots and codes (no data)	R99 and Rel-4 only	RCS3-290 RCS3-291
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing Indication - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value	Initialize Not Present 0 (single) TDD 3.84 Mcps (no data) Arbitrary set to value 0..306688 by step of 512		RCS3-292 RCS3-293 RCS3-294 RCS3-295 RCS3-296 RCS3-297 RCS3-298 RCS3-299 RCS3-300 RCS3-301 RCS3-302
Downlink information for per radio links list - Downlink information for each radio links - CHOICE mode - Primary CCPCH info - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option - Timeslot number - Individual timeslot info - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Type 1 - Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - First timeslot channelisation codes - First channelisation code - Last channelisation code - CHOICE more timeslots - UL CCTrCH TPC List -SCCPCH information for FACH	TDD Sync Case 1 PCCPCH timeslot 0 TDD 1 (256+CFN-(CFN mod 8 + 8))mod 256 infinite Reference to the present document TRUE Reference to clause 6 Parameter set 1 Empty 3.84 Mcps The number of a downlink timeslot that has unassigned codes in a frame. TRUE 3.84 Mcps Default As defined in 3GPP TS 25.221 [28] (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.. (j/SF) where j is the highest numbered code that is being assigned in the slot. 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. Not Present Not Present	R99 and Rel-4 only	RCS3-292 RCS3-293 RCS3-294 RCS3-295 RCS3-296 RCS3-297 RCS3-298 RCS3-299 RCS3-300 RCS3-301 RCS3-302 RCS3-303 RCS3-304 RCS3-305 RCS3-306 RCS3-307 RCS3-308 RCS3-309 RCS3-310 RCS3-311 RCS3-312 RCS3-313 RCS3-314 RCS3-315 RCS3-316 RCS3-317 RCS3-318 RCS3-319 RCS3-320 RCS3-321 RCS3-322 RCS3-323 RCS3-324 RCS3-325 RCS3-326 RCS3-327 RCS3-328 RCS3-329 RCS3-330 RCS3-331 RCS3-332 RCS3-333 RCS3-334 RCS3-335 RCS3-336 RCS3-337 RCS3-338 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 TDD capability update requirement	TRUE		RCS1-013
- System specific capability update requirement list	GSM		RCS1-014
CHOICE specification mode	Complete specification	Rel-5	RCS1-015
- Complete specification		Rel-5	RCS1-016
- Signalling RB information to setup list	4 SRBs (UM DCCH for RRC)		RCS1-017
- Signalling RB information to setup	Not Present		RCS1-018
- RB identity	RLC info		RCS1-019
- CHOICE RLC info type	UM RLC		RCS1-020
- CHOICE Uplink RLC mode	Not Present		RCS1-021
- Transmission RLC discard	UM RLC		RCS1-022
- CHOICE Downlink RLC mode	UM RLC		RCS1-023
- RB mapping info	2 RBMuxOptions		RCS1-024
- Information for each multiplexing option	Not Present		RCS1-025
- RLC logical channel mapping indicator	1		RCS1-026
- Number of RLC logical channels	DCH		RCS1-027
- Uplink transport channel type	5		RCS1-028
- UL Transport channel identity	1		RCS1-029
- Logical channel identity	Configured		RCS1-030
- CHOICE RLC size list	1		RCS1-031
- MAC logical channel priority			RCS1-032
- Downlink RLC logical channel info			RCS1-033
- Number of RLC logical channels	1		RCS1-034
- Downlink transport channel type	DCH		RCS1-035
- DL DCH Transport channel identity	10		RCS1-036
- DL DSCH Transport channel identity	Not Present		RCS1-037
- Logical channel identity	1		RCS1-038
- RLC logical channel mapping indicator	Not Present		RCS1-039
- Number of RLC logical channels	1		RCS1-040
- Uplink transport channel type	RACH		RCS1-041
- UL Transport channel identity	Not Present		RCS1-042
- Logical channel identity	1		RCS1-043
- CHOICE RLC size list	Configured		RCS1-044
- RLC size index	Reference to clause 6 Parameter Set		RCS1-045
- MAC logical channel priority	1		RCS1-046
- Downlink RLC logical channel info			RCS1-047
- Number of RLC logical channels	1		RCS1-048
- Downlink transport channel type	FACH		RCS1-049
- DL DCH Transport channel identity	Not Present		RCS1-050
- DL DSCH Transport channel identity	Not Present		RCS1-051
- Logical channel identity	1		RCS1-052
- Signalling RB information to setup	(AM DCCH for RRC)		RCS1-053
- RB identity	Not Present		RCS1-054
- CHOICE RLC info type			RCS1-055
- RLC info			RCS1-056
- CHOICE Uplink RLC mode	AM RLC		RCS1-057
- Transmission RLC discard			RCS1-058

Information Element	Value/remark	Version	Index
- SDU discard mode	No Discard		RCS1-059
- MAX_DAT	415		RCS1-060
- Transmission window size	128		RCS1-061
- Timer_RST	500		RCS1-062
- Max_RST	4		RCS1-063
- Polling info			RCS1-064
- Timer_poll_prohibit	200		RCS1-065
- Timer_poll	200		RCS1-066
- Poll_PDU	Not Present		RCS1-067
- Poll_SDU	1		RCS1-068
- Last transmission PDU poll	TRUE		RCS1-069
- Last retransmission PDU poll	TRUE		RCS1-070
- Poll_Windows	99		RCS1-071
- Timer_poll_periodic	Not Present		RCS1-072
- CHOICE Downlink RLC mode	AM RLC		RCS1-073
- In-sequence delivery	TRUE		RCS1-074
- Receiving window size	128		RCS1-075
- Downlink RLC status info			RCS1-076
- Timer_status_prohibit	200		RCS1-077
- Timer_EPC	Not Present		RCS1-078
- Missing PDU indicator	TRUE		RCS1-079
- Timer_STATUS_periodic	Not Present		RCS1-080
- RB mapping info			RCS1-081
- Information for each multiplexing option	2 RBMuxOptions		RCS1-082
- RLC logical channel mapping indicator	Not Present		RCS1-083
- Number of RLC logical channels	1		RCS1-084
- Uplink transport channel type	DCH		RCS1-085
- UL Transport channel identity	5		RCS1-086
- Logical channel identity	2		RCS1-087
- CHOICE RLC size list	Configured		RCS1-088
- MAC logical channel priority	2		RCS1-089
- Downlink RLC logical channel info			RCS1-090
- Number of RLC logical channels	1		RCS1-091
- Downlink transport channel type	DCH		RCS1-092
- DL DCH Transport channel identity	10		RCS1-093
- DL DSCH Transport channel identity	Not Present		RCS1-094
- Logical channel identity	2		RCS1-095
- RLC logical channel mapping indicator	Not Present		RCS1-096
- Number of RLC logical channels	1		RCS1-097
- Uplink transport channel type	RACH		RCS1-098
- UL Transport channel identity	Not Present		RCS1-099
- Logical channel identity	2		RCS1-100
- CHOICE RLC size list	Explicit List		RCS1-101
- RLC size index	Reference to clause 6 Parameter Set		RCS1-102
- MAC logical channel priority	2		RCS1-103
- Downlink RLC logical channel info			RCS1-104
- Number of RLC logical channels	1		RCS1-105
- Downlink transport channel type	FACH		RCS1-106
- DL DCH Transport channel identity	Not Present		RCS1-107
- DL DSCH Transport channel identity	Not Present		RCS1-108
- Logical channel identity	2		RCS1-109
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)		RCS1-110
- RB identity	Not Present		RCS1-111
- CHOICE RLC info type			RCS1-112
- RLC info	AM RLC		RCS1-113
- CHOICE Uplink RLC mode	No Discard		RCS1-114
- Transmission RLC discard	415		RCS1-115
- SDU discard mode	128		RCS1-116
- MAX_DAT	500		RCS1-117
- Transmission window size	4		RCS1-118
- Timer_RST	200		RCS1-119
- Max_RST	200		RCS1-120
- Polling info	Not Present		RCS1-121
- Timer_poll_prohibit	1		RCS1-122
- Timer_poll			RCS1-123
- Poll_PDU	Not Present		RCS1-124
- Poll_SDU			RCS1-125

Information Element	Value/remark	Version	Index
- Last transmission PDU poll	TRUE		RCS1-126
- Last retransmission PDU poll	TRUE		RCS1-127
- Poll_Windows	99		RCS1-128
- Timer_poll_periodic	Not Present		RCS1-129
- CHOICE Downlink RLC mode	AM RLC		RCS1-130
- In-sequence delivery	TRUE		RCS1-131
- Receiving window size	128		RCS1-132
- Downlink RLC status info			RCS1-133
- Timer_status_prohibit	200		RCS1-134
- Timer_EPC	Not Present		RCS1-135
- Missing PDU indicator	TRUE		RCS1-136
- Timer_STATUS_periodic	Not Present		RCS1-137
- RB mapping info			RCS1-138
- Information for each multiplexing option	2 RBMuxOptions		RCS1-139
- RLC logical channel mapping indicator	Not Present		RCS1-140
- Number of RLC logical channels	1		RCS1-141
- Uplink transport channel type	DCH		RCS1-142
- UL Transport channel identity	5		RCS1-143
- Logical channel identity	3		RCS1-144
- CHOICE RLC size list	Configured		RCS1-145
- MAC logical channel priority	3		RCS1-146
- Downlink RLC logical channel info			RCS1-147
- Number of RLC logical channels	1		RCS1-148
- Downlink transport channel type	DCH		RCS1-149
- DL DCH Transport channel identity	10		RCS1-150
- DL DSCH Transport channel identity	Not Present		RCS1-151
- Logical channel identity	3		RCS1-152
- RLC logical channel mapping indicator	Not Present		RCS1-153
- Number of RLC logical channels	1		RCS1-154
- Uplink transport channel type	RACH		RCS1-155
- UL Transport channel identity	Not Present		RCS1-156
- Logical channel identity	3		RCS1-157
- CHOICE RLC size list	Explicit List		RCS1-158
- RLC size index	Reference to clause 6 Parameter Set		RCS1-159
- MAC logical channel priority	3		RCS1-160
- Downlink RLC logical channel info			RCS1-161
- Number of RLC logical channels	1		RCS1-162
- Downlink transport channel type	FACH		RCS1-163
- DL DCH Transport channel identity	Not Present		RCS1-164
- DL DSCH Transport channel identity	Not Present		RCS1-165
- Logical channel identity	3		RCS1-166
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)		RCS1-167
- RB identity	Not Present		RCS1-168
- CHOICE RLC info type			RCS1-169
- RLC info			RCS1-170
- CHOICE Uplink RLC mode	AM RLC		RCS1-171
- Transmission RLC discard			RCS1-172
- SDU discard mode	No Discard		RCS1-173
- MAX_DAT	415		RCS1-174
- Transmission window size	128		RCS1-175
- Timer_RST	500		RCS1-176
- Max_RST	4		RCS1-177
- Polling info			RCS1-178
- Timer_poll_prohibit	200		RCS1-179
- Timer_poll	200		RCS1-180
- Poll_PDU	Not Present		RCS1-181
- Poll_SDU	1		RCS1-182
- Last transmission PDU poll	TRUE		RCS1-183
- Last retransmission PDU poll	TRUE		RCS1-184
- Poll_Windows	99		RCS1-185
- Timer_poll_periodic	Not Present		RCS1-186
- CHOICE Downlink RLC mode	AM RLC		RCS1-187
- In-sequence delivery	TRUE		RCS1-188
- Receiving window size	128		RCS1-189
- Downlink RLC status info			RCS1-190
- Timer_status_prohibit	200		RCS1-191
- Timer_EPC	Not Present		RCS1-192

Information Element	Value/remark	Version	Index
- Missing PDU indicator - Timer_STATUS_periodic	TRUE Not Present		RCS1-193 RCS1-194
- RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity	2 RBMuxOptions Not Present 1 DCH 5 4 Configured 4 1 DCH 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit List Reference to clause 6 Parameter Set 4 1 FACH Not Present Not Present 4		RCS1-195 RCS1-196 RCS1-197 RCS1-198 RCS1-199 RCS1-200 RCS1-201 RCS1-202 RCS1-203 RCS1-204 RCS1-205 RCS1-206 RCS1-207 RCS1-208 RCS1-209 RCS1-210 RCS1-211 RCS1-212 RCS1-213 RCS1-214 RCS1-215 RCS1-216 RCS1-217 RCS1-218 RCS1-219 RCS1-220 RCS1-221 RCS1-222 RCS1-223 RCS1-224
UL Transport channel information for all transport channels			
- PRACH TFCS - CHOICE Mode -Individual UL CCTrCH information - UL TFCS ID - UL TFCS - TFC subset - Allowed Transport Format combination - PRACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - TFCS complete reconfigure	Not Present TDD (This IE is repeated for TFC number.) Default value is the complete existing set of transport format combinations 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) (This IE is repeated for TFC number.) Normal		RCS1-225 RCS1-226 RCS1-227 RCS1-228 RCS1-229 RCS1-230 RCS1-231 RCS1-232 RCS1-233 RCS1-234 RCS1-235
information			
- CHOICE TFCS Size - CTFC information - CHOICE mode - Individual UL CCTrCH information	Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set Not Present TDD Not Present Not Present		RCS1-236 RCS1-237 RCS1-238 RCS1-239 RCS1-240 RCS1-241
Deleted TrCH information list			
Added or Reconfigured UL TrCH information list			
- Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - CHOICE mode - Transmission Time Interval - CHOICE Logical channel list - Semi-static Transport Format information	1 DCH 5 Dedicated transport channels According to clause 6 (This IE is repeated for TFI number) TDD According to clause 6 All		RCS1-242 RCS1-243 RCS1-244 RCS1-245 RCS1-246 RCS1-247 RCS1-248 RCS1-249 RCS1-250 RCS1-251 RCS1-252 RCS1-253

Information Element	Value/remark	Version	Index
DL Transport channel information common for all transport channel			RCS1-254
- SCCPCH TFCS	Not Present		RCS1-255
- CHOICE mode	TDD		RCS1-256
- CHOICE DL parameters	Same as UL		RCS1-257
Added or Reconfigured DL TrCH information list	1		RCS1-258
- Added or Reconfigured DL TrCH information			RCS1-259
- Downlink transport channel type	DCH		RCS1-260
- DL Transport channel identity	10		RCS1-261
- CHOICE DL parameters	Same as UL		RCS1-262
- Uplink transport channel type	DCH		RCS1-263
- UL TrCH Identity	5		RCS1-264
- DCH quality target			RCS1-265
- BLER Quality value	Reference to the present document		RCS1-266
Frequency info	Not Present		RCS1-267
Maximum allowed UL TX power	Not Present		RCS1-268
CHOICE channel requirement	Uplink DPCH info		RCS1-269
- Uplink DPCH power control info			RCS1-270
- CHOICE mode	TDD		RCS1-271
- CHOICE TDD option	1.28 Mcps		RCS1-272
- PRXPDPCHdes	Reference to clause 6 Parameter set		RCS1-273
- CHOICE mode	TDD		RCS1-274
- CHOICE UL OL PC info	Individually signalled		RCS1-275
- CHOICE TDD option	1.28 Mcps		RCS1-276
- TPC step size	Not Present		RCS1-277
- Primary CCPCH Tx Power	Not Present		RCS1-278
- Primary CCPCH Tx Power			RCS1-279
- Time info	Not Present		RCS1-280
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256		RCS1-281
- Duration	Infinite		RCS1-282
- Common timeslot info			RCS1-283
- 2 nd interleaving mode	Reference to clause 6 Parameter Set		RCS1-284
- TFCI coding	Reference to clause 6 Parameter Set		RCS1-285
- Puncturing Limit	Reference to clause 6 Parameter Set		RCS1-286
- Repetition Period	Reference to clause 6 Parameter Set		RCS1-287
- Repetition Length	Reference to clause 6 Parameter Set		RCS1-288
- Uplink DPCH timeslots and codes	Default is to use the old timeslots and codes		RCS1-289
- CPCH SET Info	(no data)		RCS1-290
- CPCH SET Info		R99 and Rel-4 only	RCS1-291
Downlink information common for all radio links			RCS1-292
- Downlink DPCH info common for all RL			RCS1-293
- Timing Indication	Initialize		RCS1-294
- CFN-targetSFN frame offset	Not Present		RCS1-295
- Downlink DPCH power control information			RCS1-296
- DPC mode	0 (single)		RCS1-297
- CHOICE mode	TDD		RCS1-298
- CHOICE TDD option	1.28 Mcps		RCS1-299
- TSTD indicator	TRUE		RCS1-300
- Default DPCH Offset Value	Arbitrary set to value 0..306688 by step of 512		RCS1-301
Downlink information for per radio links list			RCS1-302
- Downlink information for each radio links			RCS1-303
- CHOICE mode	TDD		RCS1-304
- Primary CCPCH info			RCS1-305
- CHOICE SyncCase	Sync Case 1		RCS1-306
- Timeslot	PCCPCH timeslot		RCS1-307
- Cell parameters ID	0		RCS1-308
- SCTD indicator			RCS1-309
- Downlink DPCH info for each RL	TDD		RCS1-310
- CHOICE mode			RCS1-311
- DL CCTrCH List	1		RCS1-312
- TFCS ID			RCS1-313
- Time info	(256+CFN-(CFN mod 8 + 8))mod 256		RCS1-314
- Activation time	infinite		RCS1-315
- Duration			RCS1-316
- Common timeslot info			RCS1-317

Information Element	Value/remark	Version	Index
- 2 nd interleaving mode	Reference to the present document		RCS1-318
- TFCI coding	TRUE		RCS1-319
- Puncturing limit	Reference to clause 6 Parameter set		RCS1-320
- Repetition period	1		RCS1-321
- Repetition length	Empty		RCS1-322
- Downlink DPCH timeslots and codes			RCS1-323
- CHOICE <i>more timeslots</i>	1.28 Mcps		RCS1-324
- CHOICE TDD option	The number of a downlink timeslot that has unassigned codes in a subframe.		RCS1-325
- Timeslot number			RCS1-326
- Individual timeslot info	TRUE		RCS1-327
- TFCI existence	1.28 Mcps		RCS1-328
- Midamble shift and burst type	Default		RCS1-329
- CHOICE TDD option	As defined in 3GPP TS 25.221 [28]		RCS1-330
-CHOICE Burst Type	(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.		RCS1-331
-Midamble Allocation Mode	(j/SF) where j is the highest numbered code that is being assigned in the slot.		RCS1-332
- Midamble configuration	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.		RCS1-333
- First timeslot channelisation codes	Not Present		RCS1-334
- First channelisation code	Not Present		RCS1-335
- Last channelisation code			RCS1-336
- CHOICE more timeslots			RCS1-337
- UL CCTrCH TPC List			RCS1-338
-SCCPCH information for FACH		R99 and Rel-4 only	RCS1-339

Contents of RRC CONNECTION SETUP message: UM (7.68 Mcps TDD)

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	Arbitrarily selects an integer between 0 and 3		RCS7-003
Activation time	Not Present(Now)		RCS7-004
New U-RNTI			RCS7-005
- SRNC identity	0000 0000 0001B		RCS7-006
- S-RNTI	0000 0000 0000 0000 0001B		RCS7-007
New C-RNTI	Not Present		RCS7-008
New H-RNTI	Not Present	Rel-6	RCS7-009
CHOICE mode	TDD	Rel-7	RCS7-010
- New E-RNTI	Not Present	Rel-7	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		RCS7-017
CHOICE specification mode	Complete specification	Rel-5	RCS7-018
- Complete specification		Rel-5	RCS7-019
- Signalling RB information to setup list	4 SRBs		RCS7-020
- Signalling RB information to setup	(UM DCCH for RRC)		RCS7-021
- RB identity	Not Present		RCS7-022
- CHOICE RLC info type	RLC info		RCS7-023
- CHOICE Uplink RLC mode	UM RLC		RCS7-024
- Transmission RLC discard	Not Present		RCS7-025
- CHOICE Downlink RLC mode	UM RLC		RCS7-026
- RB mapping info			RCS7-027

Information Element	Value/remark	Version	Index
- Information for each multiplexing option	2 RBMuxOptions	RCS7-028	
- 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	

Information Element	Value/remark	Version	Index
- Downlink transport channel type	DCH		RCS7-095
- 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	1		RCS7-107
- Number of RLC logical channels	FACH		RCS7-108
- Downlink transport channel type	Not Present		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	No Discard		RCS7-118
- SDU discard mode	415		RCS7-119
- MAX_DAT	128		RCS7-120
- Transmission window size	500		RCS7-121
- Timer_RST	4		RCS7-122
- Max_RST			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	1		RCS7-150
- Number of RLC logical channels	DCH		RCS7-151
- Downlink transport channel type	10		RCS7-152
- DL DCH Transport channel identity	Not Present		RCS7-153
- DL DSCH Transport channel identity	3		RCS7-154
- Logical channel identity	Not Present		RCS7-155
- RLC logical channel mapping indicator	1		RCS7-156
- Number of RLC logical channels	RACH		RCS7-157
- Uplink transport channel type	Not Present		RCS7-158
- UL Transport channel identity	3		RCS7-159
- Logical channel identity	Explicit List		RCS7-160
- CHOICE RLC size list			RCS7-161

Information Element	Value/remark	Version	Index
- RLC size index	Reference to clause 6 Parameter Set		RCS7-162
- 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_SDUs	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

Information Element	Value/remark	Version	Index
- PRACH TFCS - CHOICE Mode -Individual UL CCTrCH information - UL TFCS ID	Not Present TDD (This IE is repeated for TFC number.)		RCS7-228 RCS7-229 RCS7-230 RCS7-231
- UL TFCS - TFC subset - Allowed Transport Format combination - PRACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - TFCS complete reconfigure	Default value is the complete existing set of transport format combinations 0 to MaxTFCValue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) (This IE is repeated for TFC number.) Normal		RCS7-232 RCS7-233 RCS7-234 RCS7-235 RCS7-236 RCS7-237 RCS7-238
information - CHOICE TFCS Size - CTFC information - CHOICE mode - Individual UL CCTrCH information	Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set Not Present TDD Not Present Not Present		RCS7-239 RCS7-240 RCS7-241 RCS7-242 RCS7-243 RCS7-244
Deleted TrCH information list	1		RCS7-245
Added or Reconfigured UL TrCH information list	DCH 5		RCS7-246 RCS7-247 RCS7-248
- Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport Format Information - RLC size - Number of TBs and TTI List - CHOICE mode - Transmission Time Interval - CHOICE Logical channel list - Semi-static Transport Format information	Dedicated transport channels According to clause 6 (This IE is repeated for TFI number) TDD According to clause 6 All		RCS7-249 RCS7-250 RCS7-251 RCS7-252 RCS7-253 RCS7-254 RCS7-255 RCS7-256
DL Transport channel information common for all transport channel			RCS7-257
- SCCPCH TFCS - CHOICE mode - CHOICE DL parameters	Not Present TDD Same as UL		RCS7-258 RCS7-259 RCS7-260
Added or Reconfigured DL TrCH information list	1		RCS7-261 RCS7-262
- Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH Identity - DCH quality target - BLER Quality value	DCH 10 Same as UL DCH 5 Reference to the present document		RCS7-263 RCS7-264 RCS7-265 RCS7-266 RCS7-267 RCS7-268 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 - CHOICE mode - CHOICE <i>TDD option</i> - UL target SIR - CHOICE mode - CHOICE <i>UL OL PC info</i> - CHOICE <i>TDD option</i> - Individual timeslot interference info - Individual timeslot interference - DPCH Constant Value - Primary CCPCH Tx Power - Time info	TDD 7.68 Mcps Reference to clause 6 Parameter set TDD Individually signalled 7.68 Mcps Not Present Not Present	Rel-7	RCS7-277 RCS7-278 RCS7-279 RCS7-280 RCS7-281 RCS7-282 RCS7-283 RCS7-284 RCS7-285 RCS7-286 RCS7-287 RCS7-288

Information Element	Value/remark	Version	Index
- Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length	(256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite Reference to clause 6.11 Parameter Set Reference to clause 6.11 Parameter Set		RCS7-289 RCS7-290 RCS7-291 RCS7-292 RCS7-293 RCS7-294 RCS7-295 RCS7-296
- CHOICE TDD Option	7.68 Mcps	Rel-7	RCS7-297
VHCR - Uplink DPCH timeslots and codes - CPCH SET Info	Default is to use the old timeslots and codes (no data)	Rel-7 R99 and Rel-4 only	RCS7-298 RCS7-299
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing Indication - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - CHOICE TDD option - Default DPCH Offset Value	Initialize Not Present 0 (single) TDD 7.68 Mcps (no data) Not Present	Rel-7	RCS7-300 RCS7-301 RCS7-302 RCS7-303 RCS7-304 RCS7-305 RCS7-306 RCS7-307 RCS7-308 RCS7-309
Downlink information for per radio links list			RCS7-310
- Downlink information for each radio links			RCS7-311
- CHOICE mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator	TDD TDD 7.68 Mcps Sync Case 1 PCCPCH timeslot 0	Rel-7	RCS7-312 RCS7-313 RCS7-314 RCS7-315 RCS7-316 RCS7-317 RCS7-318
- CHOICE DPCH info - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes	Downlink DPCH info for each RL TDD 1 (256+CFN-(CFN mod 8 + 8))mod 256 infinite Reference to the present document TRUE Reference to clause 6 Parameter set 1 Empty	Rel-6 Rel-7	RCS7-319 RCS7-320 RCS7-321 RCS7-322 RCS7-323 RCS7-324 RCS7-325 RCS7-326 RCS7-327 RCS7-328 RCS7-329 RCS7-330 RCS7-331 RCS7-332 RCS7-333 RCS7-334 RCS7-335 RCS7-336
VHCR - CHOICE <i>more timeslots</i> - CHOICE TDD option - Timeslot number - Individual timeslot info - TFCI existence - Midamble shift and burst type - CHOICE TDD option - CHOICE Burst Type - Type 1 - Midamble Allocation Mode - Midamble configuration burst	7.68 Mcps The number of a downlink timeslot that has unassigned codes in a frame. TRUE 7.68 Mcps	Rel-7	RCS7-337 RCS7-338 RCS7-339 RCS7-340 RCS7-341 RCS7-342 RCS7-343 RCS7-344
type 1 and 3 - First timeslot channelisation codes - First channelisation code - Last channelisation code	Default As defined in 3GPP TS 25.221 [28] (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.. (j/SF) where j is the highest numbered code that is being assigned in the slot.		RCS7-345 RCS7-346 RCS7-347

Information Element	Value/remark	Version	Index
- 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.		RCS7-348
- UL CCTrCH TPC List -SCCPCH information for FACH	Not Present Not Present	R99 and Rel-4 only	RCS7-349 RCS7-350

Contents of SECURITY MODE COMMAND message: AM

Information Element	Condition	Value/remark
Message Type RRC transaction identifier	A1, A2	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 - UEA0		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.
- 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.
- Spare - Integrity protection algorithm capability - UIA1 - Spare		Spare 2-15 = FALSE 0000000000000010B (UIA1) TRUE Spare 0 and Spare 2-15 = 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. Start/restart
- Ciphering mode command		
- Ciphering algorithm		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"
info		Not Present
- Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time		
info		
- Radio bearer activation time - RB identity - RLC sequence number	1	Current RLC SN
- RB identity - RLC sequence number	2	Current RLC SN+3(or Calculated Value)
- RB identity - RLC sequence number	3	Current RLC SN
- RB identity - RLC sequence number	4	Current RLC SN
Integrity protection mode info		
- Integrity protection mode command	Start	
- Downlink integrity protection activation info	Not Present	
- Integrity protection algorithm	UIA1	

Information Element	Condition	Value/remark
- Integrity protection initialisation number CN domain identity UE system specific security capability UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability	A1 A2	SS selects an arbitrary 32 bits number for FRESH CS or PS Not Checked GSM 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 A-GPS GPS Scenarios and Assistance Data

10.1 General

This clause defines the GPS scenarios and assistance data IEs which shall be available for use as specified in all A-GPS test cases in 3GPP TS 34.171 [41] and 3GPP TS 34.123-1 [1].

The information elements are given with reference to 3GPP TS 25.331 [34], where the details are defined.

Clauses 10.2 and 10.3 list the assistance data IEs required for performance testing of UE-based mode detailed in 3GPP TS 34.171 [41], and clauses 10.4 and 10.5 list the assistance data available for performance testing of UE-assisted mode detailed in 3GPP TS 34.171 [41]. Clause 10.6 lists the values of the assistance data IE fields for performance testing detailed in 3GPP TS 34.171 [41].

Clause 10.7 details the GPS scenario and the values of the assistance data IE fields for signalling testing detailed in 3GPP TS 34.123-1 [1], clause 17.2.

The A-GPS minimum performance requirements are defined by assuming that all relevant and valid assistance data is received by the UE in order to perform GPS measurements and/or position calculation. This clause does not include nor consider delays occurring in the various signalling interfaces of the network.

10.1.1 Satellite constellations and assistance data for performance testing

The satellite constellations for performance testing shall consist of 24 satellites. Almanac assistance data shall be available for all these 24 satellites. At least 9 of the satellites shall be visible to the UE (that is above 5 degrees elevation with respect to the UE). Other assistance data shall be available for 9 of these visible satellites. In each test, signals are generated for only a sub-set of these satellites for which other assistance data is available. The number of satellites in this sub-set is specified in the test. The satellites in this sub-set shall all be above 15 degrees elevation with respect to the UE. The HDOP for the test shall be calculated using this sub-set of satellites. The selection of satellites for this sub-set shall be random and consistent with achieving the required HDOP for the test.

10.1.2 GPS Scenarios for performance testing

This section defines the GPS scenarios that shall be used for all Assisted GPS performance tests defined in TS 34.171 [41].

They have been selected to be consistent with achieving the required HDOP for the Test Cases and so that for each test instance the reference location shall change sufficiently such that the UE shall have to use the new assistance data.

The satellites to be simulated in each test case are specified in clause 10.1.2.5.

The viable running time during which the scenario maintains the required HDOP or HDOPs is given. Once this time has been reached the scenario shall be restarted from its nominal start time.

10.1.2.1 GPS Scenario #1

The following GPS scenario #1 shall be used during the TTFF tests defined in TS 34.171 [41]. The assistance data specified in the following sections for GPS scenario #1 is consistent with this GPS scenario.

Yuma Almanac data: see file GPS 1 Yuma.txt in the GPS data perf zip file specified in annex C.2.

UE location: the UE location is calculated as a random offset from the reference location using the method described in section 10.1.2.4. The reference location is: latitude: 33 degrees 45 minutes 0.019 seconds north, longitude: 84 degrees 23 minutes 0.011 seconds west, (Atlanta USA), height: = 300m.

Nominal start time: 22nd January 2005 (Saturday) 00:08:00.

Viable running time to maintain specified HDOP values: 19 minutes.

Visible satellites available for simulation and for which Assistance Data (other than Almanac) shall be generated: PRNs: 2, 6, 10, 17, 18, 21, 26, 29, 30.

Ionospheric model: see values in section 10.6.6.

Tropospheric model: STANAG with SRI equal to 324.8, as defined in [43].

10.1.2.2 GPS Scenario #2

The following GPS scenario #2 shall be used during the TTFF tests defined in TS 34.171 [41]. The assistance data specified in the following sections for GPS scenario #2 is consistent with this GPS scenario.

Yuma Almanac data: see file GPS 2 Yuma.txt in the GPS data perf zip file specified in annex C.2.

UE location: the UE location is calculated as a random offset from the reference location using the method described in section 10.1.2.4. The reference location is: latitude: 37 degrees 48 minutes 59.988 seconds south, longitude: 144 degrees 58 minutes 0.013 seconds east, (Melbourne Australia), height: = 100m.

Nominal start time: 22nd January 2004 (Thursday) 00:08:00.

Viable running time to maintain specified HDOP values: 19 minutes.

Visible satellites available for simulation and for which Assistance Data (other than Almanac) shall be generated: PRNs: 3, 11, 14, 15, 18, 22, 23, 25, 31.

Ionospheric model: see values in section 10.6.6.

Tropospheric model: STANAG with SRI equal to 324.8, as defined in [43].

10.1.2.3 GPS Scenario #3

The following GPS scenario #3 shall be used during the Moving Scenario and Periodic Update test case defined in TS 34.171 [41]. The assistance data specified in the following sections for GPS scenario #3 is consistent with this GPS scenario.

Yuma Almanac data: see file GPS 3 Yuma.txt in the GPS data perf zip file specified in annex C.2.

UE location: the UE location is given as a trajectory as shown in Figure 5.6.1 of TS 34.171 [41]. The reference location is at the centre of the trajectory and is at: latitude: 37 degrees 48 minutes 59.988 seconds south, longitude: 144 degrees 58 minutes 0.013 seconds east, (Melbourne Australia), height: = 100m.

Start time: 22nd January 2004 (Thursday) 00:08:00.

Start location: at the point between l_{11} and l_{12} in Figure 5.6.1 of TS 34.171 [41], going in a clock-wise direction.

Visible satellites available for simulation and for which Assistance Data (other than Almanac) shall be generated: PRNs: 3, 11, 14, 15, 18, 22, 23, 25, 31.

Viable running time to maintain specified HDOP values: 19 minutes.

Ionospheric model: see values in section 10.6.6.

Tropospheric model: STANAG with SRI equal to 324.8, as defined in [43].

10.1.2.4 UE Location for TTFF test cases

This section defines the method for generating the random UE locations that are required to be used for the TTFF tests defined in TS 34.171 [41].

For every Test Instance in each TTFF test case, the UE location shall be randomly selected to be within 3 km of the Reference Location. The Altitude of the UE shall be randomly selected between 0 m to 500 m above WGS-84 reference ellipsoid. These values shall have uniform random distributions.

The UE location is calculated as an offset from the Reference Location.

10.1.2.4.1 UE Location Offset

The UE location offset shall be calculated by selecting the next pair of random numbers, representing a pair of latitude and longitude offsets in degrees, from a standard uniform random number generator, with the following properties:

The ranges of the latitude and longitude offsets values shall be such that when translated onto the surface of the earth they shall lie within a 3km radius circle, centred on the Reference location specified for the GPS scenario under consideration. For the purposes of this calculation make the following assumptions:

- a) Over the 3km radius circle at the Reference location the earth is flat and the meridians and parallels form a rectangular grid
- b) The earth is spherical with a radius of 6371141m (equal to the WGS 84 value at 35 degrees latitude)

The resolution used for the latitude and longitude offsets values shall be 90/2E23 for the latitude offset values and 360/2E24 for the longitude offset values, representing the coding resolution in degrees specified in TS23.032 [42].

10.1.2.4.2 UE Altitude

The UE altitude value shall be calculated by selecting the next random number from a standard uniform random number generator, in the range 0 to 500, representing meters. The resolution used for the random number shall be 1, representing 1 meter.

10.1.2.5 Satellites to be simulated in each test case

The satellites to be simulated in each test case have been selected in order to achieve the required HDOP for that test case.

Satellites to be simulated

Test case	PRNs GPS #1	PRNs GPS #2	PRNs GPS #3
Sensitivity Coarse Time Assistance	2, 6, 10, 17, 18, 21, 26, 29	3, 11, 14, 15, 22, 23, 25, 31	-
Sensitivity Fine Time Assistance	2, 6, 10, 17, 18, 21, 26, 29	3, 11, 14, 15, 22, 23, 25, 31	-
Nominal Accuracy	2, 6, 10, 17, 18, 21, 26, 29	3, 11, 14, 15, 22, 23, 25, 31	-
Dynamic Range	2, 6, 10, 17, 26, 29	3, 14, 15, 22, 25, 31	-
Multi-path Performance	2, 6, 17, 21, 26	3, 14, 15, 22, 25	-
Moving Scenario and Periodic Update Performance	-	-	3, 14, 15, 22, 25

10.2 Information elements required for normal UE based testing

The following A-GPS assistance data IEs and fields shall be present for each test. Fields not specified shall not be present. The values of the fields are specified in clause 10.6.

- a) **UE positioning GPS reference time IE.** This information element is defined in clause 10.3.7.96 of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
UE positioning GPS reference time	
	GPS Week
	GPS TOW msec
	GPS TOW Assist
	SatID
	TLM Message
	TLM Reserved
	Alert
	Anti-Spoof

- b) **UE positioning GPS reference UE position IE.** This information element is defined in clause 10.3.8.4c of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
Reference Location	Ellipsoid point with Altitude and uncertainty ellipsoid

- c) **UE positioning GPS navigation model IE.** This information element is defined in clause 10.3.7.94 of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
Navigation Model	All satellite information

- d) **UE positioning GPS ionospheric model IE.** This information element is defined in clause 10.3.7.92 of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
Ionospheric Model	All

10.3 Information elements required for UE based Sensitivity Fine Time Assistance test case

The A-GPS assistance data IEs and fields that shall be present for the Sensitivity Fine Time Assistance test case shall be those specified in clause 10.2 with the following exception. Fields not specified shall not be present. The values of the fields are specified in clause 10.6.

- UE positioning GPS reference time IE.** This information element is defined in clause 10.3.7.96 of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
UE positioning GPS reference time	
	GPS Week
	GPS TOW msec
	UTRAN GPS reference time
	>UTRAN GPS timing of cell frames
	>CHOICE mode
	>>FDD
	>>>Primary CPICH Info
	>SFN
	SFN-TOW Uncertainty
	TUTRAN-GPS drift rate
	GPS TOW Assist
	SatID
	TLM Message
	TLM Reserved
	Alert
	Anti-Spoof

10.4 Information elements available for normal UE assisted testing

The following A-GPS assistance data IEs and fields shall be available for use in each test. Fields not specified shall not be present. The values of the fields are specified in clause 10.6.

- a) **UE positioning GPS reference time IE.** This information element is defined in clause 10.3.7.96 of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
UE positioning GPS reference time	
	GPS Week
	GPS TOW msec
	GPS TOW Assist
	SatID
	TLM Message
	TLM Reserved
	Alert
	Anti-Spoof

- b) **UE positioning GPS reference UE position IE.** This information element is defined in clause 10.3.8.4c of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
Reference Location	Ellipsoid point with Altitude and uncertainty ellipsoid

- c) **UE positioning GPS almanac** This information element is defined in clause 10.3.7.89 of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
UE positioning GPS almanac	Almanac Reference Week
	All Satellite information

- d) **UE positioning GPS navigation model IE.** This information element is defined in clause 10.3.7.94 of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
Navigation Model	All satellite information

- e) **UE positioning GPS acquisition assistance IE.** This information element is defined in clause 10.3.7.88 of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
Acquisition Assistance	
	GPS TOW msec
	Satellite information
>SatID	
>Doppler (0 th order term)	
>Extra Doppler	
>>Doppler (1 st order term)	
>>Doppler Uncertainty	
>Code Phase	
>Integer Code Phase	
>GPS Bit number	
>Code Phase Search Window	
>Azimuth and Elevation	
>> Azimuth	
>> Elevation	

10.5 Information elements available for UE assisted Sensitivity Fine Time Assistance test case

The A-GPS assistance data IEs and fields that shall be available for use for the Sensitivity Fine Time Assistance test case shall be those specified in clause 10.4 with the following exceptions. Fields not specified shall not be present. The values of the fields are specified in clause 10.6.

- a) **UE positioning GPS reference time IE.** This information element is defined in clause 10.3.7.96 of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
UE positioning GPS reference time	
	GPS Week
	GPS TOW msec
	UTRAN GPS reference time
>UTRAN GPS timing of cell frames	
>CHOICE mode	
>>FDD	
>>>Primary CPICH Info	
>SFN	

	SFN-TOW Uncertainty
	TUTRAN-GPS drift rate
	GPS TOW Assist
	SatID
	TLM Message
	TLM Reserved
	Alert
	Anti-Spoof

- b) **UE positioning GPS acquisition assistance IE.** This information element is defined in clause 10.3.7.88 of 3GPP TS 25.331 [34].

Name of the IE	Fields of the IE
Acquisition Assistance	
	GPS TOW msec
	UTRAN GPS reference time
	>UTRAN GPS timing of cell frames
	>CHOICE mode
	>>FDD
	>>>Primary CPICH Info
	>SFN
	Satellite information
	>SatID
	>Doppler (0 th order term)
	>Extra Doppler
	>>Doppler (1 st order term)
	>>Doppler Uncertainty
	>Code Phase
	>Integer Code Phase
	>GPS Bit number
	>Code Phase Search Window
	>Azimuth and Elevation
	>> Azimuth
	>> Elevation

10.6 Contents of Information elements for performance testing

10.6.1 General

This section defines the assistance data values that shall be used for all Assisted GPS performance tests defined in TS 34.171 [41]. It is given for GPS scenarios #1, #2 and #3 where it is different for each scenario; otherwise it is marked “All” where the same value is used for all scenarios.

Where assistance data is required on a per-satellite basis, or where the values of the data also varies with time it is specified in comma-separated-variable files with suffixes XX in the GPS data perf zip file specified in annex C.2, where XX is 01, 02 and 03 for GPS scenarios #1, #2 and #3 respectively. These files specify the values to be used for each satellite, indexed by satellite PRN, and, where applicable, the values to be used indexed by both time and satellite PRN.

Assistance data that is marked as “time varying” is specified and used in 80 ms increments. Interpolation between these values shall not be used.

Assistance data Information Elements and fields that are not specified shall not be used.

10.6.2 IE Random Offset Values

This section defines the methods for generating the random offsets that are required to be applied to one or two assistance data IEs for certain tests defined in TS 34.171 [41].

10.6.2.1 GPS TOW msec

For every Test Instance in each TTFF test case, the IE GPS TOW msec shall have a random offset, relative to GPS system time, within the allowed error range of Coarse Time Assistance defined in the test case. This offset value shall have a uniform random distribution.

NOTE: For the Moving Scenario and Periodic Update Test Case the value of the IE GPS TOW msec shall be set to the nominal value, i.e. no offset shall be used.

The offset value shall be calculated by selecting the next random number from a standard uniform random number generator, in the range specified for the GPS Coarse Time assistance error range in the Test Requirements, Test parameters table for the test under consideration. The resolution used for the random number shall be 0.01, representing 10ms.

10.6.2.1 UTRAN GPS timing of cell frames

In addition, for every Fine Time Assistance Test Instance the IE UTRAN GPS timing of cell frames shall have a random offset, relative to the true value of the relationship between the two time references, within the allowed error range of Fine Time Assistance defined in the test case. This offset value shall have a uniform random distribution.

The offset value shall be calculated by selecting the next random number from a standard uniform random number generator with the following properties:

The range shall be the number of UMTS chips whose duration is less than the range specified for the GPS Fine Time assistance error range in the Test Requirements, Test parameters table for the test under consideration.

The resolution used for the random number shall be 1, representing 1 UMTS chip.

10.6.3 Assistance Data Reference Time

Contents of UE positioning GPS reference time IE

Reference Time (Fields occurring once per message)

Parameter	Units	Value/remark GPS #1	Value/remark GPS #2	Value/remark GPS #3
GPS Week	weeks	282	230	230
GPS TOW msec	msec	518880000. Start time. Add number of ms as required. (Note 1)	346080000. Start time. Add number of ms as required. (Note 1)	346080000. Start time. Add number of ms as required. (Note 1)
UTRAN GPS reference time		Present for Sensitivity Fine Time Assistance test case. Absent otherwise	Present for Sensitivity Fine Time Assistance test case. Absent otherwise	Absent
>UTRAN GPS timing of cell frames		Note 2	Note 2	-
>CHOICE mode		Present for Sensitivity Fine Time Assistance test case. Absent otherwise	Present for Sensitivity Fine Time Assistance test case. Absent otherwise	-
>>FDD		-	-	-
>>>Primary CPICH Info		100	100	-
>SFN		Note 2	Note 2	-
SFN-TOW Uncertainty		lessThan10	lessThan10	-
TUTRAN-GPS drift rate		0	0	-

Note 1: GPS TOW msec
This is the value in ms of GPS TOW msec when the GPS scenario is initially started in the GPS simulator. For all TTFF test cases, each time a GPS scenario is used, the GPS start time shall be advanced by 120 seconds from the value last used so that, at the time the fix is made, it is at least 2 minutes later than the previous fix made with that scenario.

The actual value of GPS TOW msec to be used in the Reference Time IE (before the addition of the random offset, if applicable) shall be calculated at the time the IE is required by adding the elapsed time since the time the scenario was started in the GPS simulator to this value. The accuracy shall be such that the Maximum Test System Uncertainty for Coarse Time Assistance, specified in Table F.1.2 of TS 34.171 [41], shall be met.

For all TTFF test cases a random offset is then added to the value of GPS TOW msec as described in clause 10.6.2

Note 2: UTRAN GPS timing of cell frames and SFN
The values of UTRAN GPS timing of cell frames (before the addition of the random offset) and SFN shall be calculated at the time the IE is required. The accuracy of the relationship between the two fields shall be such that the Maximum Test System Uncertainty for Fine Time Assistance, specified in Table F.1.2 of TS 34.171 [41], shall be met.

A random offset is then added to the value of UTRAN GPS timing of cell frames as described in clause 10.6.2

Satellite Information

Parameter	Units	Value/remark GPS All
Number of satellites	---	9

Reference Time - GPS TOW Assist (Fields occurring once per satellite)

Parameter	Units	Value/remark GPS #1	Value/remark GPS #2	Value/remark GPS #3
SatID		PRNs: 2, 6, 10, 17, 18, 21, 26, 29, 30	PRNs: 3, 11, 14, 15, 18, 22, 23, 25, 31	PRNs: 3, 11, 14, 15, 18, 22, 23, 25, 31

Reference Time - GPS TOW Assist (Fields occurring once per satellite)

Parameter	Units	Value/remark GPS All
TLM Message	Bit string	10922
TLM Reserved	Bit string	2
Alert	Boolean	0
Anti-Spoof	Boolean	1

10.6.4 Assistance Data Reference Position

Contents of UE positioning GPS reference UE position IE

The uncertainty of the semi-major axis is 3 km. The uncertainty of the semi-minor axis is 3 km. The orientation of the major axis is 0 degrees. The uncertainty of the altitude information is 500 m. The confidence factor is 68%.

Reference Position

Parameter	Units	Value/remark GPS #1	Value/remark GPS #2	Value/remark GPS #3
Type of Shape	Bit field	Ellipsoid point with altitude and uncertainty Ellipsoid	Ellipsoid point with altitude and uncertainty Ellipsoid	Ellipsoid point with altitude and uncertainty Ellipsoid
Degrees of latitude	degrees	33.750005	-37.816663	-37.816663
Degrees of longitude	degrees	-84.383517	144.966670	144.966670
Altitude	m	+300	+100	+100
Uncertainty semi-major	m	3000	3000	3000
Uncertainty semi-minor	m	3000	3000	3000
Orientation of major axis	degrees	0	0	0
Uncertainty altitude	m	500	500	500
Confidence	%	68	68	68

10.6.5 Assistance Data Navigation Model

Contents of UE positioning GPS navigation model IE

Satellite Information

Parameter	Units	Value/remark GPS All
Number of satellites	---	9

Navigation Model (Fields occurring once per satellite)

Parameter	Units	Value/remark GPS #1	Value/remark GPS #2	Value/remark GPS #3
SatID	---	PRNs: 2, 6, 10, 17, 18, 21, 26, 29, 30	PRNs: 3, 11, 14, 15, 18, 22, 23, 25, 31	PRNs: 3, 11, 14, 15, 18, 22, 23, 25, 31
Satellite Status	Boolean	0 (Note)	0 (Note)	0 (Note)

NOTE: For consistency Satellite Status is also given in file: Navigation model XX.csv

Ephemeris and Clock Correction parameters (Fields occurring once per satellite)

Parameter	Units	Value/remark GPS All
C/A or P on L2	Boolean	See file: Navigation model XX.csv
URA Index	Boolean	See file: Navigation model XX.csv
SV Health	Boolean	See file: Navigation model XX.csv
IODC	---	See file: Navigation model XX.csv
L2 P Data Flag	Boolean	See file: Navigation model XX.csv
SF 1 Reserved	---	See file: Navigation model XX.csv
T _{GD}	sec	See file: Navigation model XX.csv
t _{oc}	sec	See file: Navigation model XX.csv
a _{f2}	sec/sec ²	See file: Navigation model XX.csv
a _{f1}	sec/sec	See file: Navigation model XX.csv
a _{f0}	sec	See file: Navigation model XX.csv
C _{rs}	meters	See file: Navigation model XX.csv
Δn	semi-circles/sec	See file: Navigation model XX.csv
M ₀	semi-circles	See file: Navigation model XX.csv
C _{uc}	radians	See file: Navigation model XX.csv
e	---	See file: Navigation model XX.csv
C _{us}	radians	See file: Navigation model XX.csv
(A) ^{1/2}	meters ^{1/2}	See file: Navigation model XX.csv
t _{oe}	sec	See file: Navigation model XX.csv
Fit Interval Flag	Boolean	See file: Navigation model XX.csv
AODO	sec	See file: Navigation model XX.csv
C _{cic}	radians	See file: Navigation model XX.csv
OMEGA ₀	semi-circles	See file: Navigation model XX.csv
C _{is}	radians	See file: Navigation model XX.csv
i ₀	semi-circles	See file: Navigation model XX.csv
C _{rc}	meters	See file: Navigation model XX.csv
ω	semi-circles	See file: Navigation model XX.csv
OMEGAdot	semi-circles/sec	See file: Navigation model XX.csv
Idot	semi-circles/sec	See file: Navigation model XX.csv

10.6.6 Assistance Data Ionospheric Model

Contents of UE positioning GPS ionospheric model IE

Ionospheric Model

Parameter	Units	Value/remark GPS All
α ₀	seconds	4.6566129 10E-9
α ₁	sec/semi-circle	1.4901161 10E-8
α ₂	sec/(semi-circle) ²	-5.96046 10E-8
α ₃	sec/(semi-circle) ³	-5.96046 10E-8
β ₀	seconds	79872
β ₁	sec/semi-circle	65536
β ₂	sec/(semi-circle) ²	-65536
β ₃	sec/(semi-circle) ³	-393216

10.6.7 Assistance Data Almanac

Contents of UE positioning GPS almanac

Almanac (Field occurring once per message)

Parameter	Units	Value/remark GPS #1	Value/remark GPS #2	Value/remark GPS #3
WN _a	weeks	27	230	230

Satellite Information

Parameter	Units	Value/remark GPS All
Number of satellites	---	24

Almanac (Fields occurring once per satellite)

Parameter	Units	Value/remark
DataID	---	See file: Almanac XX.csv

Almanac (Fields occurring once per satellite)

Parameter	Units	Value/remark GPS #1	Value/remark GPS #2	Value/remark GPS #3
SatID	---	PRNs: 1, 2, 4, 5, 6, 7, 9, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 29, 30	PRNs: 1, 2, 3, 4, 5, 6, 7, 8, 11, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 25, 27, 28, 30, 31	PRNs: 1, 2, 3, 4, 5, 6, 7, 8, 11, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 25, 27, 28, 30, 31

Almanac (Fields occurring once per satellite)

Parameter	Units	Value/remark
e	dimensionless	See file: Almanac XX.csv
t _{oa}	sec	See file: Almanac XX.csv
δi	semi-circles	See file: Almanac XX.csv
OMEGADOT	semi-circles/sec	See file: Almanac XX.csv
SV Health	Boolean	See file: Almanac XX.csv
A ^{1/2}	meters ^{1/2}	See file: Almanac XX.csv
OMEGA ₀	semi-circles	See file: Almanac XX.csv
M ₀	semi-circles	See file: Almanac XX.csv
ω	semi-circles	See file: Almanac XX.csv
af ₀	seconds	See file: Almanac XX.csv
af ₁	sec/sec	See file: Almanac XX.csv

10.6.8 Assistance Data Acquisition Assistance

Contents of UE positioning GPS acquisition assistance IE

GPS Acquisition Assistance (Fields occurring once per message)

Parameter	Units	Value/remark GPS #1	Value/remark GPS #2	Value/remark GPS #3
GPS TOW msec	msec	51888000 ms. Start time. Add number of ms as required. (Note 1)	346080000 ms. Start time. Add number of ms as required. (Note 1)	346080000 ms. Start time. Add number of ms as required. (Note 1)
UTRAN GPS reference time		Present for Sensitivity Fine Time Assistance test case. Absent otherwise	Present for Sensitivity Fine Time Assistance test case. Absent otherwise	Absent
>UTRAN GPS timing of cell frames		Note 2	Note 2	-
>CHOICE mode		Present for Sensitivity Fine Time Assistance test case. Absent otherwise	Present for Sensitivity Fine Time Assistance test case. Absent otherwise	-
>>FDD		-	-	-
>>>Primary CPICH Info		100	100	-
>SFN		Note 2	Note 2	-
<p>Note 1: GPS TOW msec This is the value in ms of GPS TOW msec when the GPS scenario is initially started in the GPS simulator. For all TTFF test cases, each time a GPS scenario is used, the GPS start time shall be advanced by 120 seconds from the value last used so that, at the time the fix is made, it is at least 2 minutes later than the previous fix made with that scenario.</p> <p>The actual value of GPS TOW msec to be used in the Acquisition Assistance IE (before the addition of the random offset, if applicable) shall be calculated at the time the IE is required by adding the elapsed time since the time the scenario was started in the GPS simulator to this value. The accuracy shall be such that the Maximum Test System Uncertainty for Coarse Time Assistance, specified in Table F.1.2 of TS 34.171 [41], shall be met.</p> <p>For all TTFF test cases a random offset is then added to the value of GPS TOW msec as described in clause 10.6.2</p> <p>This "final GPS TOW msec" value is then also used to determine the value of the Acquisition Assistance parameters marked as "Time varying" in clause 10.6.8</p> <p>Note 2: UTRAN GPS timing of cell frames and SFN The values of UTRAN GPS timing of cell frames (before the addition of the random offset) and SFN shall be calculated at the time the IE is required. The accuracy of the relationship between the two fields shall be such that the Maximum Test System Uncertainty for Fine Time Assistance, specified in Table F.1.2 of TS 34.171 [41], shall be met.</p> <p>A random offset is then added to the value of UTRAN GPS timing of cell frames as described in clause 10.6.2</p>				

Satellite Information

Parameter	Units	Value/remark GPS All
Number of satellites	---	9

GPS Acquisition Assistance (Fields occurring once per satellite)

Parameter	Units	Value/remark GPS #1	Value/remark GPS #2	Value/remark GPS #3
SatID	---	PRNs: 2, 6, 10, 17, 18, 21, 26, 29, 30	PRNs: 3, 11, 14, 15, 18, 22, 23, 25, 31	PRNs: 3, 11, 14, 15, 18, 22, 23, 25, 31

GPS Acquisition Assistance (Fields occurring once per satellite)

Parameter	Units	Value/remark GPS All
Doppler (0 th order term)	Hz	Time varying. See file: Acquisition assist XX.csv (Note)
Doppler (1 st order term)	Hz/sec	Time varying. See file: Acquisition assist XX.csv (Note)
Doppler Uncertainty	Hz	Time varying. See file: Acquisition assist XX.csv (Note)
Code Phase	chips	Time varying. See file: Acquisition assist XX.csv (Note)
Integer Code Phase	---	Time varying. See file: Acquisition assist XX.csv (Note)
GPS Bit number	---	Time varying. See file: Acquisition assist XX.csv (Note)
Code Phase Search Window	chips	Time varying. See file: Acquisition assist XX.csv (Note)
Azimuth	deg	Time varying. See file: Acquisition assist XX.csv (Note)
Elevation	deg	Time varying. See file: Acquisition assist XX.csv (Note)
Note: Acquisition Assistance parameters This field is "Time varying" and its value depends on the "final GPS TOW msec" as described in clause 10.6.8. The value of this field to be used shall be determined by taking the "final GPS TOW msec" value and selecting the nearest field value in the Acquisition assist.csv file corresponding to the value of "final current GPS TOW msec".		

10.7 GPS Scenario and values of Information Elements for signalling testing

10.7.1 General

This clause defines the GPS scenario and the associated assistance data values that shall be used for all Assisted GPS signalling tests defined in 3GPP TS 34.123-1 [1] clause 17.2.

Where assistance data is required on a per-satellite basis, or where the values of the data also varies with time it is specified in comma-separated-variable files in the GPS data sig zip file specified in annex C.1. These files specify the values to be used for each satellite, indexed by satellite PRN, and, where applicable, the values to be used indexed by both time and satellite PRN.

Assistance data that is marked as "time varying", and the GPS TOW msec field are only specified and used in 1 second increments. Interpolation between these values shall not be used.

The accuracy of the GPS TOW msec and assistance data that is marked as "time varying" in the provided assistance data shall be within ± 2 s relative to the GPS time in the system simulator.

Assistance data Information Elements and fields that are not specified shall not be used.

10.7.2 GPS Scenario

The following GPS scenario shall be used. The assistance data specified in the following clauses is consistent with this GPS scenario:

- Yuma Almanac data: see file Tokyo Yuma.txt in the GPS data sig zip file specified in annex C.1.
- UE location and Reference location: static at latitude: 35 degrees 40 minutes north, longitude: 139 degrees 45 minutes east, (Tokyo) height: = 50m.
- Start time: 12th September 2003 21:30:00.
- Visible satellites simulated: PRNs: 4, 6, 9, 10, 13, 22.
- Ionospheric model: see values in clause 10.7.6.

10.7.3 Assistance Data Reference Time

Contents of UE positioning GPS reference time IE

Reference Time (Fields occurring once per message)

Parameter	Units	Value/remark
GPS Week	weeks	211
GPS TOW msec	msec	509 400 s. Start time. Add integer number of 1 seconds as required (see note)
NOTE: This is the value in seconds of GPS TOW msec when the GPS scenario is started in the GPS simulator. The value of GPS TOW msec to be used in the Reference Time IE shall be calculated at the time the IE is required by adding the elapsed time since the time the scenario was started in the GPS simulator to this value, rounded up to the next 1 second interval.		

10.7.4 Assistance Data Reference Position

Contents of UE positioning GPS reference UE position IE

Reference Position

Parameter	Units	Value/remark
Type of Shape	Bit field	Ellipsoid point with altitude and uncertainty Ellipsoid
Degrees of latitude	degrees	+35.666667
Degrees of longitude	degrees	+139.75
Altitude	m	+50
Uncertainty semi-major	m	3 000
Uncertainty semi-minor	m	3 000
Orientation of major axis	degrees	0
Uncertainty altitude	m	500
Confidence	%	68

10.7.5 Assistance Data Navigation Model

Contents of UE positioning GPS navigation model IE

Satellite Information

Parameter	Units	Value/remark
Number of Satellites	---	6

Navigation Model (Fields occurring once per satellite)

Parameter	Units	Value/remark
SatID	---	PRNs: 4, 6, 9, 10, 13, 22.
Satellite Status	Boolean	0 (see note)
NOTE: For consistency Satellite Status is also given in file: Navigation model.csv.		

Ephemeris and Clock Correction parameters (Fields occurring once per satellite)

Parameter	Units	Value/remark
C/A or P on L2	Boolean	See file: Navigation model.csv
URA Index	Boolean	See file: Navigation model.csv
SV Health	Boolean	See file: Navigation model.csv
IODC	---	See file: Navigation model.csv
L2 P Data Flag	Boolean	See file: Navigation model.csv
SF 1 Reserved	---	See file: Navigation model.csv
T _{GD}	sec	See file: Navigation model.csv
t _{oc}	sec	See file: Navigation model.csv
a _{f2}	sec/sec ²	See file: Navigation model.csv
a _{f1}	sec/sec	See file: Navigation model.csv

a_{f_0}	sec	See file: Navigation model.csv
C_{rs}	meters	See file: Navigation model.csv
Δn	semi-circles/sec	See file: Navigation model.csv
M_0	semi-circles	See file: Navigation model.csv
C_{uc}	radians	See file: Navigation model.csv
e	---	See file: Navigation model.csv
C_{us}	radians	See file: Navigation model.csv
$(A)^{1/2}$	meters ^{1/2}	See file: Navigation model.csv
t_{oe}	sec	See file: Navigation model.csv
Fit Interval Flag	Boolean	See file: Navigation model.csv
AODO	sec	See file: Navigation model.csv
C_{ic}	radians	See file: Navigation model.csv
OMEGA_0	semi-circles	See file: Navigation model.csv
C_{is}	radians	See file: Navigation model.csv
i_0	semi-circles	See file: Navigation model.csv
C_{rc}	meters	See file: Navigation model.csv
ω	semi-circles	See file: Navigation model.csv
OMEGAdot	semi-circles/sec	See file: Navigation model.csv
Idot	semi-circles/sec	See file: Navigation model.csv

10.7.6 Assistance Data Ionospheric Model

Contents of UE positioning GPS ionospheric model IE

Ionospheric Model

Parameter	Units	Value/remark
α_0	seconds	4.6566129 10E-9
α_1	sec/semi-circle	1.4901161 10E-8
α_2	sec/(semi-circle) ²	-5.96046 10E-8
α_3	sec/(semi-circle) ³	-5.96046 10E-8
β_0	seconds	79872
β_1	sec/semi-circle	65536
β_2	sec/(semi-circle) ²	-65536
β_3	sec/(semi-circle) ³	-393216

10.7.7 Assistance Data Almanac

Contents of UE positioning GPS almanac

Almanac (Field occurring once per message)

Parameter	Units	Value/remark
WN _a	weeks	212

Satellite Information

Parameter	Units	Value/remark
Number of Satellites	---	24

Almanac (Fields occurring once per satellite)

Parameter	Units	Value/remark
DataID	---	See file: Almanac.csv
SatID	---	PRNs: 1 to 24
e	dimensionless	See file: Almanac.csv

t_{oa}	sec	See file: Almanac.csv
δi	semi-circles	See file: Almanac.csv
OMEGADOT	semi-circles/sec	See file: Almanac.csv
SV Health	Boolean	See file: Almanac.csv
$A^{1/2}$	meters ^{1/2}	See file: Almanac.csv
Ω_{MEGA_0}	semi-circles	See file: Almanac.csv
M_0	semi-circles	See file: Almanac.csv
ω	semi-circles	See file: Almanac.csv
a_{f_0}	seconds	See file: Almanac.csv
a_{f_1}	sec/sec	See file: Almanac.csv

10.7.8 Assistance Data Acquisition Assistance

Contents of UE positioning GPS acquisition assistance IE

GPS Acquisition Assist (Field occurring once per message)

Parameter	Units	Value/remark
GPS TOW msec	msec	509 400 s. Start time. Add integer number of 1 seconds as required (see note)
NOTE: This is the value in seconds of GPS TOW msec when the GPS scenario is started in the GPS simulator. The value of GPS TOW msec to be used in the Acquisition Assistance IE shall be calculated at the time the IE is required by adding the elapsed time since the time the scenario was started in the GPS simulator to this value, rounded up to the next 1 second interval. This "current GPS TOW msec" is then also used to determine the value of the Acquisition Assistance parameters marked as "Time varying" in clause 10.7.8.		

Satellite Information

Parameter	Units	Value/remark
Number of Satellites	---	6

GPS Acquisition Assist (Fields occurring once per satellite)

Parameter	Units	Value/remark
SatID	---	PRNs: 4, 6, 9, 10, 13, 22.
Doppler (0 th order term)	Hz	Time varying. See file: Acquisition assist .csv (see note)
Doppler (1 st order term)	Hz/sec	Time varying. See file: Acquisition assist .csv (see note)
Doppler Uncertainty	Hz	Time varying. See file: Acquisition assist .csv (see note)
Code Phase	chips	Time varying. See file: Acquisition assist .csv (see note)
Integer Code Phase	---	Time varying. See file: Acquisition assist .csv (see note)
GPS Bit number	---	Time varying. See file: Acquisition assist .csv (see note)
Code Phase Search Window	chips	Time varying. See file: Acquisition assist .csv (see note)
Azimuth	deg	Time varying. See file: Acquisition assist .csv (see note)
Elevation	deg	Time varying. See file: Acquisition assist .csv (see note)
NOTE: This field is "Time varying" and its value depends on the "current GPS TOW msec" as described in clause 10.7.3. The value of this field to be used shall be determined by taking the "current GPS TOW msec" value and selecting the field value in the Acquisition assist.csv file corresponding to the value of "current GPS TOW msec".		

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) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION	No session ongoing or PTP session ongoing.
C2	MBMS MODIFIED SERVICES INFORMATION (empty services_list) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON RB INFORMATION + 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) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON RB INFORMATION + MBMS CURRENT CELL p-t-m RB INFORMATION + MBMS NEIGHBOURING CELL p-t-m RB INFORMATION (per neighbouring cell)	PTM sessions are ongoing, no service modification
C4	MBMS MODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON RB INFORMATION + MBMS CURRENT CELL p-t-m RB INFORMATION + 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 + MBMS GENERAL INFORMATION + MBMS COMMON RB INFORMATION + MBMS CURRENT CELL p-t-m RB INFORMATION + MBMS NEIGHBOURING CELL p-t-m RB INFORMATION (per neighbouring cell related to modified services) + MBMS UNMODIFIED SERVICES INFORMATION + 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) + MBMS UNMODIFIED SERVICES INFORMATION (empty services_list) + MBMS GENERAL INFORMATION	No MBMS services
C7	MBMS MODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + 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

11.2.1.1.2 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

11.2.1.1.3 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

11.2.1.1.4 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) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION	No session ongoing.
C2	MBMS MODIFIED SERVICES INFORMATION (empty services_list) + MBMS UNMODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON P-T-M RB INFORMATION + MBMS CURRENT CELL P-T-M RB INFORMATION	PTM sessions are ongoing, no service modification
C3	Reserved	
C4	MBMS MODIFIED SERVICES INFORMATION + MBMS GENERAL INFORMATION + MBMS COMMON RB INFORMATION + MBMS CURRENT CELL P-T-M RB INFORMATION + 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) + MBMS UNMODIFIED SERVICES INFORMATION (empty services_list) + 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

Annex A to B (informative):
Void

Annex C (normative): GPS Data Files

C.1 GPS data files for signalling tests

The GPS data files for use in signalling tests defined in 3GPP TS 34.123-1 [1] are contained in archive GPS Data Sig V2.zip which accompanies the present document.

C.2 GPS data files for performance tests

The GPS data files for use in performance tests defined in 3GPP TS 34.171 [41] are contained in archive GPS Data Perf V5.zip which accompanies the present document.

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

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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 RABs above 64 kbps	A	4.3.0	4.4.0	T1-020541

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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
TP-20	TP-030098	219	-	Update of Reconfiguration messages	A	4.6.0	4.7.0	T1-030692

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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 DPCCH_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
TP-23	TP-040037	303	-	correction of RADIO BEARER SETUP default message	F	4.9.0	4.10.0	T1-040371

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				contents for 1.28 Mcps TDD				
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
TP-25	TP-040157	357	-	Correction to test procedure for test cases using	F	5.1.0	5.2.0	T1-041376

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				CELL_FACH state				
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 values for signalling tests to 34.108	F	5.3.0	5.4.0	T1-050458

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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 BTFD 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 from 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 34.108	F	5.5.0	6.0.0	R5-051312

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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 configuration	F	6.0.0	6.1.0	R5-051933

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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 2006-01: Editorial conversion to make file compatible with Word 2000.	F	6.0.0	6.1.0	-
						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
RP-32	RP-060337	505	-	Removal of alternative procedure for HSDPA RF testing	F	6.2.0	6.3.0	R5-061212

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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-060336	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 Performance Test	F	6.4.0	6.5.0	R5-063400

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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
RP-36	RP-070364	584		Addition of Reference Radio Bearer configurations used	F	7.0.0	7.1.0	R5-071284

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				in Radio Bearer testing for 7.68 Mcps TDD				
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
RP-38	RP-070877	626		Update of generic setup procedure for MBMS RF/RRM	F	8.0.0	8.1.0	R5-073300

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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
RP-39	RP-080095	0662		Addition of new RB Combination for MBMS Testing	F	8.1.0	8.2.0	R5-080600

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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-PUCCH 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
RP-41	RP-080555	0702		Correction to uplink beta factors in default messages	F	8.3.0	8.4.0	R5-083566

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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 IE's 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 IE's 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
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

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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
RP-44	RP-090812	0772	-	Supported Channels for MBSFN 3.84 Mcps TDD IMB	F	8.7.0	8.8.0	R5-094863

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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 improvedL2 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
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

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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-PUCH 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
RP-49	RP-100811	0842	-	Change the default value of Qrxlevmin for LCR TDD	F	9.1.0	9.2.0	R5-105018

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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 BADIO 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

History

Document history		
V9.0.0	July 2010	Publication
V9.1.0	July 2010	Publication
V9.2.0	November 2010	Publication
V9.3.0	April 2011	Publication
V9.4.0	July 2011	Publication