Universal Mobile Telecommunications System (UMTS);
UTRAN Iub interface Node B Application Part (NBAP)
signalling
(3GPP TS 25.433 version 9.5.0 Release 9)
Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for ETSI members and non-members, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://webapp.etsi.org/IPR/home.asp).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.
## Contents

Intellectual Property Rights ......................................................................................................................... 2
Foreword ......................................................................................................................................................... 2

1 References .................................................................................................................................................. 24

2 Definitions, Symbols and Abbreviations .................................................................................................. 26
3.1 Definitions .............................................................................................................................................. 26
3.2 Symbols ................................................................................................................................................. 26
3.3 Abbreviations ....................................................................................................................................... 26

4 General ..................................................................................................................................................... 28
4.1 Procedure Specification Principles .................................................................................................. 28
4.2 Forwards and Backwards Compatibility .......................................................................................... 29
4.3 Specification Notations ....................................................................................................................... 29

5 NBAP Services .......................................................................................................................................... 30
5.1 Parallel Transactions ........................................................................................................................... 30

6 Services Expected from Signalling Transport ..................................................................................... 30

7 Functions of NBAP .................................................................................................................................. 30

8 NBAP Procedures .................................................................................................................................. 33
8.1 Elementary Procedures ....................................................................................................................... 33
8.2 NBAP Common Procedures .............................................................................................................. 35
8.2.1 Common Transport Channel Setup ............................................................................................. 35
8.2.1.1 General ..................................................................................................................................... 35
8.2.1.2 Successful Operation .............................................................................................................. 36
8.2.1.3 Unsuccessful Operation ......................................................................................................... 39
8.2.1.4 Abnormal Conditions ......................................................................................................... 40
8.2.2 Common Transport Channel Reconfiguration ........................................................................... 40
8.2.2.1 General ..................................................................................................................................... 40
8.2.2.2 Successful Operation .............................................................................................................. 41
8.2.2.3 Unsuccessful Operation ......................................................................................................... 43
8.2.2.4 Abnormal Conditions ......................................................................................................... 43
8.2.3 Common Transport Channel Deletion ......................................................................................... 44
8.2.3.1 General ..................................................................................................................................... 44
8.2.3.2 Successful Operation .............................................................................................................. 44
8.2.3.3 Unsuccessful Operation ......................................................................................................... 45
8.2.3.4 Abnormal Conditions ......................................................................................................... 45
8.2.4 Block Resource ............................................................................................................................. 45
8.2.4.1 General ..................................................................................................................................... 45
8.2.4.2 Successful Operation .............................................................................................................. 45
8.2.4.3 Unsuccessful Operation ......................................................................................................... 46
8.2.4.4 Abnormal Conditions ......................................................................................................... 46
8.2.5 Unblock Resource .......................................................................................................................... 47
8.2.5.1 General ..................................................................................................................................... 47
8.2.5.2 Successful Operation .............................................................................................................. 47
8.2.5.3 Abnormal Conditions ......................................................................................................... 47
8.2.6 Audit Required .............................................................................................................................. 47
8.2.6.1 General ..................................................................................................................................... 47
8.2.6.2 Successful Operation .............................................................................................................. 47
8.2.6.3 Abnormal Conditions ......................................................................................................... 48
8.2.7 Audit .................................................................................................................................................. 48
8.2.7.1 General ..................................................................................................................................... 48
8.2.7.2 Successful Operation .............................................................................................................. 48
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1.1</td>
<td>General</td>
<td>272</td>
</tr>
<tr>
<td>9.1.2</td>
<td>Message Contents</td>
<td>272</td>
</tr>
<tr>
<td>9.1.2.1</td>
<td>Presence</td>
<td>272</td>
</tr>
<tr>
<td>9.1.2.2</td>
<td>Criticality</td>
<td>273</td>
</tr>
<tr>
<td>9.1.2.3</td>
<td>Range</td>
<td>273</td>
</tr>
<tr>
<td>9.1.2.4</td>
<td>Assigned Criticality</td>
<td>273</td>
</tr>
<tr>
<td>9.1.3.1</td>
<td>FDD Message</td>
<td>274</td>
</tr>
<tr>
<td>9.1.3.2</td>
<td>TDD Message</td>
<td>278</td>
</tr>
<tr>
<td>9.1.4</td>
<td>COMMON TRANSPORT CHANNEL SETUP RESPONSE</td>
<td>288</td>
</tr>
<tr>
<td>9.1.5</td>
<td>COMMON TRANSPORT CHANNEL SETUP FAILURE</td>
<td>288</td>
</tr>
<tr>
<td>9.1.6.1</td>
<td>FDD Message</td>
<td>289</td>
</tr>
<tr>
<td>9.1.6.2</td>
<td>TDD Message</td>
<td>290</td>
</tr>
<tr>
<td>9.1.7</td>
<td>COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE</td>
<td>293</td>
</tr>
<tr>
<td>9.1.8</td>
<td>COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE</td>
<td>293</td>
</tr>
<tr>
<td>9.1.9</td>
<td>COMMON TRANSPORT CHANNEL DELETION REQUEST</td>
<td>294</td>
</tr>
<tr>
<td>9.1.11</td>
<td>BLOCK RESOURCE REQUEST</td>
<td>294</td>
</tr>
<tr>
<td>9.1.12</td>
<td>BLOCK RESOURCE RESPONSE</td>
<td>295</td>
</tr>
<tr>
<td>9.1.13</td>
<td>BLOCK RESOURCE FAILURE</td>
<td>295</td>
</tr>
<tr>
<td>9.1.14</td>
<td>UNBLOCK RESOURCE INDICATION</td>
<td>295</td>
</tr>
<tr>
<td>9.1.15</td>
<td>AUDIT REQUIRED INDICATION</td>
<td>295</td>
</tr>
<tr>
<td>9.1.16</td>
<td>AUDIT REQUEST</td>
<td>296</td>
</tr>
<tr>
<td>9.1.17</td>
<td>AUDIT RESPONSE</td>
<td>297</td>
</tr>
<tr>
<td>9.1.17A</td>
<td>AUDIT FAILURE</td>
<td>304</td>
</tr>
<tr>
<td>9.1.18</td>
<td>COMMON MEASUREMENT INITIATION REQUEST</td>
<td>305</td>
</tr>
<tr>
<td>9.1.19</td>
<td>COMMON MEASUREMENT INITIATION RESPONSE</td>
<td>308</td>
</tr>
<tr>
<td>9.1.20</td>
<td>COMMON MEASUREMENT INITIATION FAILURE</td>
<td>309</td>
</tr>
<tr>
<td>9.1.21</td>
<td>COMMON MEASUREMENT TERMINATION REQUEST</td>
<td>310</td>
</tr>
<tr>
<td>9.1.22</td>
<td>COMMON MEASUREMENT TERMINATION INDICATION</td>
<td>311</td>
</tr>
<tr>
<td>9.1.23</td>
<td>COMMON MEASUREMENT FAILURE</td>
<td>311</td>
</tr>
<tr>
<td>9.1.24</td>
<td>CELL SETUP REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.24.1</td>
<td>FDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.24.2</td>
<td>TDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.25</td>
<td>CELL SETUP RESPONSE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.26</td>
<td>CELL SETUP FAILURE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.27</td>
<td>CELL RECONFIGURATION REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.27.1</td>
<td>FDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.27.2</td>
<td>TDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.28</td>
<td>CELL RECONFIGURATION RESPONSE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.29</td>
<td>CELL RECONFIGURATION FAILURE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.30</td>
<td>CELL DELETION REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.31</td>
<td>CELL DELETION RESPONSE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.32</td>
<td>RESOURCE STATUS INDICATION</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.33</td>
<td>SYSTEM INFORMATION UPDATE REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.34</td>
<td>SYSTEM INFORMATION UPDATE RESPONSE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.35</td>
<td>SYSTEM INFORMATION UPDATE FAILURE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.36</td>
<td>RADIO LINK SETUP REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.36.1</td>
<td>FDD message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.36.2</td>
<td>TDD message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.37</td>
<td>RADIO LINK SETUP RESPONSE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.37.1</td>
<td>FDD message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.37.2</td>
<td>TDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.38</td>
<td>RADIO LINK SETUP FAILURE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.38.1</td>
<td>FDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.38.2</td>
<td>TDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.39</td>
<td>RADIO LINK ADDITION REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.39.1</td>
<td>FDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.39.2</td>
<td>TDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.40</td>
<td>RADIO LINK ADDITION RESPONSE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.40.1</td>
<td>FDD message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.40.2</td>
<td>TDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.41</td>
<td>RADIO LINK ADDITION FAILURE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.41.1</td>
<td>FDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.41.2</td>
<td>TDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.42</td>
<td>RADIO LINK RECONFIGURATION PREPARE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.42.1</td>
<td>FDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.42.2</td>
<td>TDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.43</td>
<td>RADIO LINK RECONFIGURATION READY</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.44</td>
<td>RADIO LINK RECONFIGURATION FAILURE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.45</td>
<td>RADIO LINK RECONFIGURATION COMMIT</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.46</td>
<td>RADIO LINK RECONFIGURATION CANCEL</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.47</td>
<td>RADIO LINK RECONFIGURATION REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.47.1</td>
<td>FDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.47.2</td>
<td>TDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.48</td>
<td>RADIO LINK RECONFIGURATION RESPONSE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.49</td>
<td>RADIO LINK DELETION REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.50</td>
<td>RADIO LINK DELETION RESPONSE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.51</td>
<td>DL POWER CONTROL REQUEST [FDD]</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.52</td>
<td>DEDICATED MEASUREMENT INITIATION REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.53</td>
<td>DEDICATED MEASUREMENT INITIATION RESPONSE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.54</td>
<td>DEDICATED MEASUREMENT INITIATION FAILURE</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.55</td>
<td>DEDICATED MEASUREMENT REPORT</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.56</td>
<td>DEDICATED MEASUREMENT TERMINATION REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.57</td>
<td>DEDICATED MEASUREMENT FAILURE INDICATION</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.58</td>
<td>RADIO LINK FAILURE INDICATION</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.59</td>
<td>RADIO LINK RESTORE INDICATION</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.60</td>
<td>COMPRESSED MODE COMMAND [FDD]</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.61</td>
<td>ERROR INDICATION</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.62</td>
<td>PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.62.1</td>
<td>FDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.62.2</td>
<td>TDD Message</td>
<td>..........................................................</td>
</tr>
<tr>
<td>9.1.63</td>
<td>PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE</td>
<td>..........................................................</td>
</tr>
</tbody>
</table>
9.1.64 PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE ............................................................... 427
9.1.65 RESET REQUEST ............................................................................................................................... 428
9.1.66 RESET RESPONSE ............................................................................................................................... 429
9.1.67 DL POWER TIMESLOT CONTROL REQUEST [TDD] ................................................................. 430
9.1.68 RADIO LINK PREEMPTION REQUIRED INDICATION ............................................................. 430
9.1.69 INFORMATION EXCHANGE INITIATION REQUEST ................................................................. 430
9.1.70 INFORMATION EXCHANGE INITIATION RESPONSE ............................................................... 431
9.1.71 INFORMATION EXCHANGE INITIATION FAILURE ................................................................. 431
9.1.72 INFORMATION REPORT ................................................................................................................... 431
9.1.73 INFORMATION EXCHANGE TERMINATION REQUEST ............................................................. 431
9.1.74 INFORMATION EXCHANGE FAILURE INDICATION ............................................................... 432
9.1.75 CELL SYNCHRONISATION INITIATION REQUEST [TDD] .......................................................... 432
9.1.76 CELL SYNCHRONISATION INITIATION RESPONSE [TDD] ......................................................... 433
9.1.77 CELL SYNCHRONISATION INITIATION FAILURE [TDD] ............................................................. 433
9.1.78 CELL SYNCHRONISATION RECONFIGURATION REQUEST [TDD] ............................................... 434
9.1.79 CELL SYNCHRONISATION RECONFIGURATION RESPONSE [TDD] ............................................ 436
9.1.80 CELL SYNCHRONISATION RECONFIGURATION FAILURE [TDD] ............................................. 436
9.1.81 CELL SYNCHRONISATION REPORT [TDD] ..................................................................................... 436
9.1.82 CELL SYNCHRONISATION TERMINATION REQUEST [TDD] ...................................................... 437
9.1.83 CELL SYNCHRONISATION FAILURE INDICATION [TDD] .......................................................... 438
9.1.84 CELL SYNCHRONISATION ADJUSTMENT REQUEST [TDD] ...................................................... 438
9.1.85 CELL SYNCHRONISATION ADJUSTMENT RESPONSE [TDD] .................................................... 438
9.1.86 CELL SYNCHRONISATION ADJUSTMENT FAILURE [TDD] .......................................................... 439
9.1.87 BEARER REARRANGEMENT INDICATION ................................................................................... 440
9.1.88 RADIO LINK ACTIVATION COMMAND ....................................................................................... 441
9.1.88.1 FDD Message ............................................................................................................................... 441
9.1.88.2 TDD Message ............................................................................................................................... 441
9.1.89 RADIO LINK PARAMETER UPDATE INDICATION ................................................................. 442
9.1.89.1 FDD Message ............................................................................................................................... 442
9.1.89.2 TDD Message ............................................................................................................................... 442
9.1.90 MBMS NOTIFICATION UPDATE COMMAND ........................................................................... 443
9.1.91 UE STATUS UPDATE COMMAND ................................................................................................. 443
9.1.92 SECONDARY UL FREQUENCY REPORT ................................................................................... 444
9.1.92.1 FDD Message ............................................................................................................................... 444
9.1.93 SECONDARY UL FREQUENCY UPDATE INDICATION ............................................................. 444
9.1.93.1 FDD Message ............................................................................................................................... 444
9.2 Information Element Functional Definition and Contents ................................................................ 444
9.2.0 General ............................................................................................................................................ 444
9.2.1 Common parameters ....................................................................................................................... 445
9.2.1.1 Add/Delete Indicator .................................................................................................................... 445
9.2.1.1A Allocation/Retention Priority ..................................................................................................... 445
9.2.1.1B Alternative Format Reporting Indicator ..................................................................................... 445
9.2.1.2 Availability Status ................................................................................................................. 445
9.2.1.3 BCCH Modification Time ........................................................................................................... 446
9.2.1.4 Binding ID ................................................................................................................................. 446
9.2.1.4A BLER ....................................................................................................................................... 446
9.2.1.5 Blocking Priority Indicator ........................................................................................................ 446
9.2.1.5A Burst Mode Parameters ............................................................................................................ 447
9.2.1.5B Broadcast Common Transport Bearer Indication ................................................................. 447
9.2.1.5C Broadcast Reference ............................................................................................................... 447
9.2.1.6 Cause ......................................................................................................................................... 448
9.2.1.7 CFN ............................................................................................................................................ 452
9.2.1.8 CFN Offset ................................................................................................................................. 452
9.2.1.9 C-ID .......................................................................................................................................... 452
9.2.1.9A Common Channels Capacity Consumption Law ...................................................................... 452
9.2.1.9B Common Measurement Accuracy ............................................................................................ 453
9.2.1.10 Common Measurement Object Type ....................................................................................... 454
9.2.1.11 Common Measurement Type .................................................................................................... 454
9.2.1.12 Common Measurement Value ................................................................................................. 456
9.2.1.12A Common Measurement Value Information ............................................................................. 462
9.2.1.13 Common Physical Channel ID .................................................................................................. 462
9.2.1.13A Common Physical Channel Status Information ........................................................................ 462
| 9.2.1.14  | Common Transport Channel ID                                                                 | 462 |
| 9.2.1.14A | Common Transport Channel Information Response                                              | 463 |
| 9.2.1.14B | Common Transport Channel Status Information                                                | 463 |
| 9.2.1.15  | Communication Control Port ID                                                              | 463 |
| 9.2.1.16  | Configuration Generation ID                                                                | 463 |
| 9.2.1.17  | Criticality Diagnostics                                                                    | 463 |
| 9.2.1.18A | CRNC Communication Context ID                                                              | 466 |
| 9.2.1.19  | DCH Combination Indicator                                                                  | 466 |
| 9.2.1.20  | DCH ID                                                                                  | 467 |
| 9.2.1.20A | Dedicated Channels Capacity Consumption Law                                               | 467 |
| 9.2.1.20B | DL Or Global Capacity Credit                                                              | 468 |
| 9.2.1.20C | DCH Information Response                                                                  | 469 |
| 9.2.1.21  | DL Power                                                                                | 469 |
| 9.2.1.22  | Dedicated Measurement Object Type                                                          | 469 |
| 9.2.1.23  | Dedicated Measurement Type                                                                 | 469 |
| 9.2.1.24  | Dedicated Measurement Value                                                               | 470 |
| 9.2.1.24A | Dedicated Measurement Value Information                                                    | 472 |
| 9.2.1.24B | DGPS Corrections                                                                         | 472 |
| 9.2.1.24C | Delayed Activation                                                                        | 473 |
| 9.2.1.24D | Delayed Activation Update                                                                  | 474 |
| 9.2.1.24E | Discard Timer                                                                            | 474 |
| 9.2.1.25  | Diversity Control Field                                                                   | 474 |
| 9.2.1.26  | Diversity Indication                                                                      | 475 |
| 9.2.1.26A | DL DPCH Timing Adjustment                                                                  | 475 |
| 9.2.1.27  | DSCH ID                                                                                 | 475 |
| 9.2.1.27A | DSCH Information Response                                                                  | 475 |
| 9.2.1.28  | DSCH Transport Format Set                                                                  | 475 |
| 9.2.1.29  | DSCH Transport Format Combination Set                                                      | 475 |
| 9.2.1.29A | End Of Audit Sequence Indicator                                                           | 475 |
| 9.2.1.29B | FN Reporting Indicator                                                                    | 475 |
| 9.2.1.30  | Frame Handling Priority                                                                   | 476 |
| 9.2.1.31  | Frame Offset                                                                             | 476 |
| 9.2.1.31A | IB_OC_ID                                                                                | 476 |
| 9.2.1.31B | GPS Navigation Model & Time Recovery                                                      | 476 |
| 9.2.1.31C | GPS Ionospheric Model                                                                     | 477 |
| 9.2.1.31D | GPS UTC Model                                                                            | 478 |
| 9.2.1.31E | GPS Real-Time Integrity                                                                   | 478 |
| 9.2.1.31F | GPS Almanac                                                                              | 478 |
| 9.2.1.31G | GPS Receiver Geographical Position (GPS RX Pos)                                           | 479 |
| 9.2.1.31Ga | HSDPA Capability                                                                        | 480 |
| 9.2.1.31H | HS-DSCH Information To Modify                                                             | 480 |
| 9.2.1.31HA | HS-DSCH Information To Modify Unsynchronised                                             | 483 |
| 9.2.1.31Ha | HS-DSCH Initial Capacity Allocation                                                       | 485 |
| 9.2.1.31Hb | HS-DSCH Initial Window Size                                                               | 485 |
| 9.2.1.31I | HS-DSCH MAC-d Flow ID                                                                     | 486 |
| 9.2.1.31IA | HS-DSCH MAC-d Flows Information                                                          | 486 |
| 9.2.1.31IB | HS-DSCH MAC-d Flows To Delete                                                             | 488 |
| 9.2.1.31IC | HS-DSCH MAC-d PDU Size Capability                                                        | 488 |
| 9.2.1.31ID | HS-DSCH MAC-d PDU Size Formal                                                             | 488 |
| 9.2.1.31Ia | HS-DSCH Physical Layer Category                                                          | 488 |
| 9.2.1.31Iaa | HS-DSCH Provided Bit Rate Value                                                           | 489 |
| 9.2.1.31Ib | HS-DSCH Provided Bit Rate Value Information                                               | 489 |
| 9.2.1.31Iba | HS-DSCH Required Power Value                                                              | 489 |
| 9.2.1.31Ic | HS-DSCH Required Power Value Information                                                  | 489 |
| 9.2.1.31IaJ | HS-DSCH RNTI                                                                             | 490 |
| 9.2.1.31J | HS-SCCH Code Change Indicator                                                            | 490 |
| 9.2.1.31L | HS-SCCH Code Change Grant                                                                 | 490 |
| 9.2.1.31M | HS-PDSCH Code Change Indicator [FDD]                                                      | 490 |
| 9.2.1.31N | HS-PDSCH Code Change Grant [FDD]                                                          | 491 |
| 9.2.1.32  | IB_SG_DATA                                                                               | 491 |
| 9.2.1.33  | IB_SG_POS                                                                                | 491 |
| 9.2.1.53A | SFN .......................................................................................................................... | 517 |
| 9.2.1.53B | Segment Type ........................................................................................................... | 517 |
| 9.2.1.53C | SFN-SFN Measurement Threshold Information .......................................................... | 517 |
| 9.2.1.53D | SFN-SFN Measurement Time Stamp ........................................................................... | 518 |
| 9.2.1.53E | SFN-SFN Measurement Value Information .................................................................. | 518 |
| 9.2.1.53F | SFN-SFN Value .......................................................................................................... | 519 |
| 9.2.1.53G | RL Specific DCH Information ...................................................................................... | 520 |
| 9.2.1.53H | Scheduling Priority Indicator .................................................................................... | 520 |
| 9.2.1.53I | SID .............................................................................................................................. | 520 |
| 9.2.1.54 | SIB Deletion Indicator .............................................................................................. | 520 |
| 9.2.1.55 | SIB Originator ............................................................................................................ | 520 |
| 9.2.1.55A | Signalling Bearer Request Indicator ......................................................................... | 521 |
| 9.2.1.56 | Shutdown Timer .......................................................................................................... | 521 |
| 9.2.1.56A | T1 .............................................................................................................................. | 521 |
| 9.2.1.56B | T_RLFAILURE ........................................................................................................... | 521 |
| 9.2.1.56C | Transport Format Set ................................................................................................. | 524 |
| 9.2.1.57 | Transport Format Set ................................................................................................. | 524 |
| 9.2.1.58 | TNL QoS ..................................................................................................................... | 523 |
| 9.2.1.59 | Transaction ID .............................................................................................................. | 525 |
| 9.2.1.60 | Transaction ID .............................................................................................................. | 525 |
| 9.2.1.61 | Transaction ID .............................................................................................................. | 525 |
| 9.2.1.62A | Transaction ID .............................................................................................................. | 525 |
| 9.2.1.63 | Transport Layer Address ............................................................................................ | 526 |
| 9.2.1.64 | Transport Layer Address ............................................................................................ | 526 |
| 9.2.1.64A | TSPAN Measurement Value Information .................................................................. | 526 |
| 9.2.1.64B | TSPAN Measurement Threshold Information ............................................................ | 527 |
| 9.2.1.64C | TSPAN Accuracy Class .............................................................................................. | 527 |
| 9.2.1.65 | UARFCN .................................................................................................................... | 528 |
| 9.2.1.66 | UARFCN .................................................................................................................... | 528 |
| 9.2.1.66A | UARFCN .................................................................................................................... | 528 |
| 9.2.1.66B | UL Capacity Credit ..................................................................................................... | 528 |
| 9.2.1.67 | UL Cell Identifier (UC-Id) ........................................................................................ | 528 |
| 9.2.1.67A | UL Cell Identifier (UC-Id) ........................................................................................ | 528 |
| 9.2.1.68 | UL Interference Level ............................................................................................... | 529 |
| 9.2.1.68A | UL Interference Level ............................................................................................... | 529 |
| 9.2.1.69 | Unidirectional DCH Indicator ................................................................................... | 529 |
| 9.2.1.70 | E-DCH MAC-d Flow Multiplexing List ....................................................................... | 529 |
| 9.2.1.71 | E-DCH MAC-d Flow Multiplexing List ....................................................................... | 529 |
| 9.2.1.71A | E-DCH MAC-d Flow Multiplexing List ....................................................................... | 529 |
| 9.2.1.71B | E-DCH MAC-d Flow Multiplexing List ....................................................................... | 529 |
| 9.2.1.72 | E-DCH MAC-d Flow Multiplexing List ....................................................................... | 529 |
| 9.2.1.73 | E-DCH MAC-d Flow Multiplexing List ....................................................................... | 529 |
| 9.2.1.74 | E-DCH MAC-d Flow Multiplexing List ....................................................................... | 533 |
| 9.2.1.74A | E-DCH MAC-d Flow Multiplexing List ....................................................................... | 533 |
| 9.2.1.74B | E-DCH MAC-d Flow Multiplexing List ....................................................................... | 533 |
| 9.2.1.75 | E-RNTI ....................................................................................................................... | 533 |
| 9.2.1.76 | E-DCH DDI Value ...................................................................................................... | 533 |
| 9.2.1.77 | E-DCH Provided Bit Rate Value ................................................................................. | 534 |
| 9.2.1.78 | E-DCH Provided Bit Rate Value Information ............................................................... | 534 |
| 9.2.1.79 | E-DCH Provided Bit Rate Value Information ............................................................... | 534 |
| 9.2.1.80 | E-DCH Processing Overload Level ............................................................................ | 534 |
| 9.2.1.81 | Logical channel ID ..................................................................................................... | 534 |
| 9.2.1.82 | Logical channel ID ..................................................................................................... | 534 |
| 9.2.1.83 | MAC-es Guaranteed Bit Rate ..................................................................................... | 535 |
| 9.2.1.84 | MAC-e Reset Indicator .............................................................................................. | 535 |
| 9.2.1.85 | MAC-e Reset Indicator .............................................................................................. | 535 |
| 9.2.1.86 | MAC-e Reset Indicator .............................................................................................. | 535 |
| 9.2.1.87 | MAC-e Reset Indicator .............................................................................................. | 535 |
| 9.2.1.88 | MAC-e Reset Indicator .............................................................................................. | 535 |
| 9.2.1.89 | MAC-e Reset Indicator .............................................................................................. | 535 |
| 9.2.1.90 | MAC-e Reset Indicator .............................................................................................. | 535 |
| 9.2.1.91 | MAC-e Reset Indicator .............................................................................................. | 535 |
| 9.2.1.92 | GANSS Clock Model .................................................................................................. | 541 |
9.2.1.100 T_{UTRAN-GANSS} Measurement Value Information

9.2.1.101 GANSS Reference Time

9.2.1.102 HARQ Memory Partitioning

9.2.1.103 GANSS Data Bit Assistance

9.2.1.104 GANSS ID

9.2.1.104a GANSS Time ID

9.2.1.105 GANSS Navigation Model And Time Recovery

9.2.1.105a GANSS Additional Navigation Models And Time Recovery

9.2.1.106 GANSS Signal ID

9.2.1.107 GANSS Transmission Time

9.2.1.107a GANSS Earth Orientation Parameters

9.2.1.107b SBAS ID

9.2.1.107c GANSS Auxiliary Information

9.2.1.107d Additional Ionospheric Model Request

9.2.1.107e Earth Orientation Parameters Request

9.2.1.107f GANSS Additional Navigation Models And Time Recovery Request

9.2.1.107g GANSS Additional UTC Models Request

9.2.1.107h GANSS Auxiliary Information Request

9.2.1.108 IP Multicast Indication

9.2.1.109 IP Multicast Data Bearer Indication

9.2.1.110 SixtyfourQAM DL Capability

9.2.1.111 FACH Measurement Occasion Cycle Length Coefficient

9.2.1.112 MAC-ehs Reset Timer

9.2.1.113 Paging MAC Flow ID

9.2.1.114 Enhanced FACH Capability

9.2.1.115 Enhanced PCH Capability

9.2.1.116 Enhanced UE DRX Capability

9.2.1.117 Priority Queue Information for Enhanced FACH/PCH

9.2.1.118 MIMO Capability

9.2.1.119 MIMO Activation Indicator

9.2.1.120 MIMO Mode Indicator

9.2.1.121 SixtyfourQAM DL and MIMO Combined Capability

9.2.1.122 DL RLC PDU Size Format

9.2.1.123 UE Aggregate Maximum Bit Rate

9.2.1.124 Dormant Mode Indicator

9.2.1.125 DGNSS Validity Period

9.2.2 FDD specific parameters

9.2.2.a ACK-NACK Repetition Factor

9.2.2.b ACK Power Offset

9.2.2.A Active Pattern Sequence Information

9.2.2.B Adjustment Period

9.2.2.C Adjustment Ratio

9.2.2.D AICH Power

9.2.2.1 AICH Transmission Timing

9.2.2.1A AP Preamble Signature

9.2.2.1B AP Sub Channel Number

9.2.2.1Ba Best Cell Portions

9.2.2.1Bb Bundling Mode Indicator
9.2.2.13f E-HICH Power Offset
9.2.2.13g E-RGCH 2-Index-Step Threshold
9.2.2.13h E-RGCH 3-Index-Step Threshold
9.2.2.13i E-DCH Capability
9.2.2.13a E-DCH Capacity Consumption Law
9.2.2.13k E-DCH Logical Channel Information
9.2.2.13l E-DCH Logical Channel To Modify
9.2.2.13m E-DCH MAC-d Flows Information
9.2.2.13n E-DCH MAC-d Flows To Delete
9.2.2.13o E-DCH MAC-d Flow ID
9.2.2.13p E-RNTI
9.2.2.13q E-DCH DDI Value
9.2.2.13r E-DCH Provided Bit Rate Value
9.2.2.13s E-DCH Provided Bit Rate Value Information
9.2.2.13t E-DCH Maximum Bitrate
9.2.2.13u E-DCH Processing Overload Level
9.2.2.13v E-DCH TTI Capability
9.2.2.13w E-DCH SF Capability
9.2.2.13x E-DCH HARQ Combining Capability
9.2.2.13y E-DCH Reference Power Offset
9.2.2.13z E-DCH Power Offset for Scheduling Info
9.2.2.14 FDD DL Channelisation Code Number
9.2.2.14a FDD DL Code Information
9.2.2.14b FDD S-CCPCH Frame Offset
9.2.2.15 FDD SCCPCH Offset
9.2.2.16 FDD TPC DL Step Size
9.2.2.16a F-DPCH Capability
9.2.2.16b F-DPCH Power Offset
9.2.2.17 First RLS Indicator
9.2.2.18 Gap Period
9.2.2.18a GAP Position Mode
9.2.2.18b HARQ Preamble Mode
9.2.2.18c HARQ Preamble Mode Activation Indicator
9.2.2.18d HARQ Info for E-DCH
9.2.2.18e Logical channel ID
9.2.2.18f Limited Power Increase
9.2.2.18g Inner Loop DL PC Status
9.2.2.18h IPDL FDD Parameters
9.2.2.18i HS-DSCH configured indicator
9.2.2.18j HS-DSCH FDD Information
9.2.2.18k HS-DSCH FDD Secondary Serving Information
9.2.2.18l HS-DSCH FDD Information Response
9.2.2.18m HS-DSCH FDD Secondary Serving Information Response
9.2.2.18n HS-DSCH FDD Secondary Serving Information To Modify
9.2.2.18o HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised
9.2.2.18p HS-DSCH FDD Update Information
9.2.2.18q HS-DSCH FDD Secondary Serving Update Information
9.2.2.18r HS-DSCH Serving Cell Change Information
9.2.2.18s HS-DSCH Serving Cell Change Information Response
9.2.2.18t HS-DSCH Secondary Serving Cell Change Information Response
9.2.2.18u E-DCH Serving Cell Change Information Response
9.2.2.18v HS-DSCH TB Size Table Indicator
9.2.2.18w HS-PDSCH FDD Code Information
9.2.2.18x HS-SCCH FDD Code Information
9.2.2.18y HS-SCCH ID
9.2.2.18z HS-SCCH Power Offset
9.2.2.19 Initial DL DPCH Timing Adjustment Allowed
9.2.2.20 Max Adjustment Period
9.2.2.20a Max Adjustment Step
9.2.2.20b Max Number Of PCPCHs
9.2.2.20c Maximum Set of E-DPDCCHs
9.2.2.20d Maximum Number Of Retransmissions For E-DCH
9.2.2.53 Transmit Diversity Indicator .................................................................612
9.2.2.53A Transmission Gap Pattern Sequence Information..........................612
9.2.2.53B Transmission Gap Pattern Sequence Code Information..................614
9.2.2.54 UL/DL compressed mode selection ..................................................614
9.2.2.55 UL delta SIR .....................................................................................615
9.2.2.56 UL delta SIR after .............................................................615
9.2.2.57 UL DPCH Slot Format .................................................................615
9.2.2.58 UL SIR .......................................................................................615
9.2.2.59 UL Scrambling Code .................................................................615
9.2.2.60 UL Capacity Credit ......................................................................615
9.2.2.61 UL DPDCH Indicator For E-DCH Operation .................................615
9.2.2.62 Fast Reconfiguration Mode ..........................................................615
9.2.2.63 Fast Reconfiguration Permission....................................................616
9.2.2.64 Continuous Packet Connectivity DTX-DRX Capability .................616
9.2.2.65 Continuous Packet Connectivity HS-SCCH less Capability ...........616
9.2.2.66 Continuous Packet Connectivity DTX-DRX Information ...............616
9.2.2.67 Continuous Packet Connectivity DTX-DRX Information To Modify ..617
9.2.2.68 Continuous Packet Connectivity HS-SCCH less Information ........618
9.2.2.69 Continuous Packet Connectivity HS-SCCH less Information Response 619
9.2.2.69A Continuous Packet Connectivity HS-SCCH less Deactivate Indicator 619
9.2.2.70 MIMO Capability ..........................................................619
9.2.2.71 MIMO Activation Indicator ..........................................................619
9.2.2.72 MIMO Mode Indicator ...............................................................619
9.2.2.73 MIMO Pilot Configuration ..........................................................620
9.2.2.74 SixtyfourQAM DL Capability .......................................................620
9.2.2.74A Sixtyfour QAM Usage Allowed Indicator .....................................620
9.2.2.74B SixtyfourQAM DL Usage Indicator .............................................620
9.2.2.75 HS-DSCH Common System Information ........................................620
9.2.2.76 HS-DSCH Paging System Information ..........................................621
9.2.2.77 HS-DSCH Common System Information Response .......................622
9.2.2.78 HS-DSCH Paging System Information Response ..........................623
9.2.2.79 Common MAC Flow ID ...............................................................623
9.2.2.80 Paging MAC Flow ID .................................................................623
9.2.2.81 HSDPA Associated PICH Information ........................................623
9.2.2.82 FACH Measurement Occasion Cycle Length Coefficient ................624
9.2.2.83 Priority Queue Information for Enhanced FACH/PCH ...................624
9.2.2.84 RACH Measurement Result .........................................................624
9.2.2.85 BCCH Specific HS-DSCH RNTI Information .................................624
9.2.2.86 Enhanced FACH Capability .........................................................624
9.2.2.87 Enhanced PCH Capability ...........................................................624
9.2.2.88 SixteenQAM UL Capability .........................................................624
9.2.2.88A SixteenQAM UL Operation Indicator ........................................625
9.2.2.88B E-TFCI Boost Information ........................................................625
9.2.2.89 SixteenQAM UL Information ........................................................625
9.2.2.90 SixteenQAM UL Information To Modify .......................................625
9.2.2.91 Modulation Power Offset .............................................................625
9.2.2.92 Extended Secondary CCPCH Slot Format .....................................626
9.2.2.93 F-DPCH Slot Format .................................................................626
9.2.2.94 F-DPCH Slot Format Capability ....................................................626
9.2.2.95 Max UE DTX Cycle .................................................................626
9.2.2.96 MIMO N/M Ratio .................................................................626
9.2.2.97 Common MAC Flows To Delete ..................................................626
9.2.2.98 Paging MAC Flows To Delete .....................................................627
9.2.2.99 MAC-ehs Reset Timer ...............................................................627
9.2.2.100 E-AGCH Table Choice ..............................................................627
9.2.2.101 Common E-DCH Capability ......................................................627
9.2.2.102 E-AI Capability ........................................................................627
9.2.2.103 Common E-DCH System Information .......................................628
9.2.2.104 Common E-DCH System Information Response .......................632
9.2.2.105 Common E-DCH MAC-d Flow Specific Information ..................632
9.2.2.106 Maximum TB Size .....................................................................633
9.2.2.107 Enhanced UE DRX Capability .....................................................633
9.2.2.108 Enhanced UE DRX Information ........................................................................................................... 633
9.2.2.109 E-DPCCH Power Boosting Capability .................................................................................................. 634
9.2.2.110 SixtyfourQAM DL and MIMO Combined Capability ............................................................................. 634
9.2.2.111 HS-DSCH Preconfiguration Info ........................................................................................................ 634
9.2.2.112 HS-DSCH Preconfiguration Setup ........................................................................................................ 636
9.2.2.113 Multi Cell Capability Info .................................................................................................................. 638
9.2.2.114 Minimum Reduced E-DPDCCH Gain Factor ....................................................................................... 638
9.2.2.115 IMB Parameters .................................................................................................................................... 638
9.2.2.116 Common E-DCH HS-DPCCH Capability ............................................................................................ 638
9.2.2.117 UE Support Indicator Extension .......................................................................................................... 639
9.2.2.118 MIMO Power Offset For S-CPICH Capability ..................................................................................... 639
9.2.2.119 Power Offset For Secondary CPICH for MIMO .................................................................................. 639
9.2.2.120 MIMO Pilot Configuration Extension ................................................................................................ 640
9.2.2.121 TX Diversity on DL Control Channels by MIMO UE Capability .......................................................... 640
9.2.2.122 Single Stream MIMO Capability ........................................................................................................ 640
9.2.2.123 Single Stream MIMO Activation Indicator ........................................................................................ 640
9.2.2.124 Single Stream MIMO Mode Indicator ............................................................................................... 640
9.2.2.125 Dual Band Capability Info ................................................................................................................. 640
9.2.2.126 Void....................................................................................................................................................... 640
9.2.2.127 HS-DSCH MAC-ehs Format ............................................................................................................... 641
9.2.2.128 Activation Information ......................................................................................................................... 641
9.2.2.129 Cell Capability Container .................................................................................................................. 641
9.2.2.130 Multicell E-DCH Transport Bearer Mode ............................................................................................ 642
9.2.2.131 Additional E-DCH FDD Setup Information ......................................................................................... 643
9.2.2.132 Additional E-DCH RL Specific Information To Setup ........................................................................ 643
9.2.2.133 Additional E-DCH RL Specific Information To Add ........................................................................... 644
9.2.2.134 Additional E-DCH RL Specific Information To Modify ........................................................................ 644
9.2.2.135 Additional E-DCH FDD Information Response .................................................................................. 645
9.2.2.136 Additional E-DCH Configuration Change Information ...................................................................... 646
9.2.2.137 Additional E-DCH FDD Information .................................................................................................... 646
9.2.2.138 Additional E-DCH FDD Update Information ...................................................................................... 647
9.2.2.139 E-RNTI List........................................................................................................................................... 647
9.2.2.140 Multicell E-DCH Information ............................................................................................................... 647
9.2.2.141 Additional Modified E-DCH FDD Information Response ................................................................. 647
9.2.2.142 Multicell E-DCH RL Specific Information ........................................................................................... 648
9.2.2.143 Precoding Weight Set Restriction ..................................................................................................... 648
9.2.2.144 Non-Serving RL Preconfiguration Setup ........................................................................................... 649
9.2.2.145 Non-Serving RL Preconfiguration Info ............................................................................................... 649
9.2.3 TDD specific Parameters .......................................................................................................................... 651
9.2.3.1 Block STTD Indicator ............................................................................................................................... 651
9.2.3.2 Burst Type................................................................................................................................................ 651
9.2.3.3 CCTrCH ID............................................................................................................................................. 651
9.2.3.4 Cell Parameter ID.................................................................................................................................. 651
9.2.3.4A Constant Value ..................................................................................................................................... 651
9.2.3.4B DL Timeslot ISCP ................................................................................................................................. 651
9.2.3.4C DCH TDD Information .......................................................................................................................... 651
9.2.3.4D DCHs TDD To Modify .......................................................................................................................... 652
9.2.3.4E DL Timeslot Information ........................................................................................................................ 653
9.2.3.4F DL Time Slot ISCP Info ........................................................................................................................ 653
9.2.3.4G Cell Sync Burst Code ........................................................................................................................... 654
9.2.3.4H Cell Sync Burst Code Shift .................................................................................................................. 654
9.2.3.4I CSB Measurement ID ............................................................................................................................... 654
9.2.3.4J Cell Sync Burst Repetition Period .......................................................................................................... 654
9.2.3.4K Cell Sync Burst SIR ............................................................................................................................... 654
9.2.3.4L Cell Sync Burst Timing .......................................................................................................................... 655
9.2.3.4La Cell Sync Burst Timing LCR ............................................................................................................... 655
9.2.3.4M Cell Sync Burst Timing Threshold ........................................................................................................ 655
9.2.3.4N CSB Transmission ID ............................................................................................................................. 655
9.2.3.4O DL Timeslot Information LCR ............................................................................................................. 655
9.2.3.4P DL Time Slot ISCP Info LCR.................................................................................................................. 656
9.2.3.4Q UpPCH Position LCR ............................................................................................................................ 656
9.2.3.5 DPCH ID................................................................................................................................................... 656
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.2.3.5a</td>
<td>DSCH ID</td>
</tr>
<tr>
<td>9.2.3.5b</td>
<td>DSCH Information Response</td>
</tr>
<tr>
<td>9.2.3.5A</td>
<td>DSCH TDD Information</td>
</tr>
<tr>
<td>9.2.3.5B</td>
<td>DwPCH Power</td>
</tr>
<tr>
<td>9.2.3.5C</td>
<td>Frame Adjustment Value</td>
</tr>
<tr>
<td>9.2.3.5D</td>
<td>IPDL TDD Parameter</td>
</tr>
<tr>
<td>9.2.3.5E</td>
<td>Max FPACH Power</td>
</tr>
<tr>
<td>9.2.3.5F</td>
<td>HS-DSDCH TDD Information</td>
</tr>
<tr>
<td>9.2.3.5G</td>
<td>HS-DSDCH TDD Information Response</td>
</tr>
<tr>
<td>9.2.3.5GA</td>
<td>HS-DSDCH TDD Update Information</td>
</tr>
<tr>
<td>9.2.3.5Ga</td>
<td>HS-SCCH ID</td>
</tr>
<tr>
<td>9.2.3.5Gb</td>
<td>HS-SICH ID</td>
</tr>
<tr>
<td>9.2.3.5Gc</td>
<td>1.28 Mcps TDD Uplink Physical Channel Capability</td>
</tr>
<tr>
<td>9.2.3.5H</td>
<td>IPDL TDD Parameters LCR</td>
</tr>
<tr>
<td>9.2.3.5I</td>
<td>TSN-Length</td>
</tr>
<tr>
<td>9.2.3.5J</td>
<td>Extended HS-SCCH ID</td>
</tr>
<tr>
<td>9.2.3.5K</td>
<td>Extended HS-SICH ID</td>
</tr>
<tr>
<td>9.2.3.6</td>
<td>Max PRACH Midamble Shift</td>
</tr>
<tr>
<td>9.2.3.7</td>
<td>Midamble Shift And Burst Type</td>
</tr>
<tr>
<td>9.2.3.7A</td>
<td>Midamble Shift LCR</td>
</tr>
<tr>
<td>9.2.3.7Aa</td>
<td>Notification Indicator Length</td>
</tr>
<tr>
<td>9.2.3.7B</td>
<td>Number Of Cycles Per SFN Period</td>
</tr>
<tr>
<td>9.2.3.7C</td>
<td>Number Of Repetitions Per Cycle Period</td>
</tr>
<tr>
<td>9.2.3.7D</td>
<td>Number Of Subcycles Per Cycle Period</td>
</tr>
<tr>
<td>9.2.3.8</td>
<td>Paging Indicator Length</td>
</tr>
<tr>
<td>9.2.3.9</td>
<td>PCCPCH Power</td>
</tr>
<tr>
<td>9.2.3.10</td>
<td>PDSCH ID</td>
</tr>
<tr>
<td>9.2.3.11</td>
<td>PDSCH Set ID</td>
</tr>
<tr>
<td>9.2.3.11A</td>
<td>Primary CCPCH RSCP</td>
</tr>
<tr>
<td>9.2.3.11B</td>
<td>Primary CCPCH RSCP Delta</td>
</tr>
<tr>
<td>9.2.3.12</td>
<td>PUSCH ID</td>
</tr>
<tr>
<td>9.2.3.13</td>
<td>PUSCH Set ID</td>
</tr>
<tr>
<td>9.2.3.14</td>
<td>PRACH Midamble</td>
</tr>
<tr>
<td>9.2.3.14A</td>
<td>Reference Clock Availability</td>
</tr>
<tr>
<td>9.2.3.14B</td>
<td>Reference SFN Offset</td>
</tr>
<tr>
<td>9.2.3.15</td>
<td>Repetition Length</td>
</tr>
<tr>
<td>9.2.3.16</td>
<td>Repetition Period</td>
</tr>
<tr>
<td>9.2.3.17</td>
<td>SCH Time Slot</td>
</tr>
<tr>
<td>9.2.3.18</td>
<td>Sync Case</td>
</tr>
<tr>
<td>9.2.3.18A</td>
<td>Special Burst Scheduling</td>
</tr>
<tr>
<td>9.2.3.18B</td>
<td>SYNC_DL Code ID</td>
</tr>
<tr>
<td>9.2.3.18C</td>
<td>Sync Frame Number</td>
</tr>
<tr>
<td>9.2.3.18D</td>
<td>Synchronisation Report Characteristics</td>
</tr>
<tr>
<td>9.2.3.18E</td>
<td>Synchronisation Report Type</td>
</tr>
<tr>
<td>9.2.3.18F</td>
<td>TDD ACK NACK Power Offset</td>
</tr>
<tr>
<td>9.2.3.19</td>
<td>TDD Channelisation Code</td>
</tr>
<tr>
<td>9.2.3.19a</td>
<td>TDD Channelisation Code LCR</td>
</tr>
<tr>
<td>9.2.3.19A</td>
<td>TDD DPCH Offset</td>
</tr>
<tr>
<td>9.2.3.19B</td>
<td>TDD DL Code Information</td>
</tr>
<tr>
<td>9.2.3.19C</td>
<td>TDD DL Code Information LCR</td>
</tr>
<tr>
<td>9.2.3.19D</td>
<td>TDD DL DPCH Time Slot Format LCR</td>
</tr>
<tr>
<td>9.2.3.20</td>
<td>TDD Physical Channel Offset</td>
</tr>
<tr>
<td>9.2.3.21</td>
<td>TDD TPC DL Step Size</td>
</tr>
<tr>
<td>9.2.3.21a</td>
<td>TDD TPC UL Step Size</td>
</tr>
<tr>
<td>9.2.3.21A</td>
<td>TDD UL Code Information</td>
</tr>
<tr>
<td>9.2.3.21B</td>
<td>TDD UL Code Information LCR</td>
</tr>
<tr>
<td>9.2.3.21C</td>
<td>TDD UL DPCH Time Slot Format LCR</td>
</tr>
<tr>
<td>9.2.3.22</td>
<td>TFCI Coding</td>
</tr>
<tr>
<td>9.2.3.22a</td>
<td>Timing Adjustment Value</td>
</tr>
<tr>
<td>9.2.3.22b</td>
<td>Timing Adjustment Value LCR</td>
</tr>
<tr>
<td>9.2.3.22A</td>
<td>Timing Advance Applied</td>
</tr>
<tr>
<td>9.2.3.23</td>
<td>Time Slot</td>
</tr>
</tbody>
</table>
9.2.3.24 Time Slot Direction.............................................................................................................. 675
9.2.3.24A Time Slot LCR ................................................................................................................. 675
9.2.3.24B Time Slot LCR Extension ............................................................................................... 675
9.2.3.25 Time Slot Status .................................................................................................................. 675
9.2.3.26 Transmission Diversity Applied.......................................................................................... 676
9.2.3.26A UL Timeslot ISCP ............................................................................................................ 676
9.2.3.26B UL PhysCH SF Variation ................................................................................................ 676
9.2.3.26C UL Timeslot Information ............................................................................................... 676
9.2.3.26D UL Time Slot ISCP Info ................................................................................................ 676
9.2.3.26E UL Timeslot Information LCR ........................................................................................ 677
9.2.3.26F UL Time Slot ISCP Info LCR .......................................................................................... 677
9.2.3.26G Uplink Synchronisation Frequency .................................................................................. 677
9.2.3.26H Uplink Synchronisation Step Size .................................................................................... 678
9.2.3.27 USCH ID ............................................................................................................................. 678
9.2.3.28 USCH Information ............................................................................................................. 678
9.2.3.29 USCH Information Response ............................................................................................ 678
9.2.3.30 SCTD Indicator .................................................................................................................. 679
9.2.3.31 PLCCH Information .......................................................................................................... 679
9.2.3.32 PLCCH Sequence Number ............................................................................................... 679
9.2.3.33 Common Physical Channel ID 7.68Mcps ........................................................................... 680
9.2.3.34 TDD Channelisation Code 7.68Mcps ............................................................................... 680
9.2.3.35 Midamble Shift And Burst Type 7.68Mcps ........................................................................ 680
9.2.3.36 Common Physical Channel Status Information 7.68Mcps .................................................... 681
9.2.3.37 Neighbouring TDD Cell Measurement Information 7.68Mcps ........................................ 681
9.2.3.38 UL Timeslot Information 7.68Mcps TDD ........................................................................ 681
9.2.3.39 DL Timeslot Information 7.68Mcps TDD .......................................................................... 681
9.2.3.40 TDD UL Code Information 7.68Mcps TDD ...................................................................... 682
9.2.3.41 TDD DL Code Information 7.68Mcps TDD ...................................................................... 682
9.2.3.42 DPCH ID 7.68Mcps ............................................................................................................. 682
9.2.3.43 PDSCH ID 7.68Mcps .......................................................................................................... 682
9.2.3.44 Max E-RUUC Midamble Shift .......................................................................................... 682
9.2.3.45a E-PUCCH Information ..................................................................................................... 683
9.2.3.45 E-PUCCH Information ....................................................................................................... 683
9.2.3.46a E-PUCCH Information LCR .......................................................................................... 684
9.2.3.46 E-TFCS Information TDD ............................................................................................... 684
9.2.3.47 E-DCH MAC-d Flows Information TDD ............................................................................ 685
9.2.3.48 E-DCH Non-scheduled Grant Information TDD ............................................................... 685
9.2.3.48a E-DCH Non-scheduled Grant Information LCR TDD ..................................................... 686
9.2.3.49 E-DCH TDD Information .................................................................................................. 687
9.2.3.49a E-DCH TDD Information LCR ....................................................................................... 688
9.2.3.50 E-DCH TDD Information Response .................................................................................. 689
9.2.3.51 E-AGCH ID TDD ............................................................................................................. 689
9.2.3.51a E-HICH ID TDD .............................................................................................................. 690
9.2.3.51b Extended E-HICH ID TDD ............................................................................................. 690
9.2.3.52 E-DCH TDD Information to Modify .................................................................................. 690
9.2.3.53 E-DCH Grant Type TDD ................................................................................................... 691
9.2.3.54 Timeslot Resource Related Information ........................................................................... 691
9.2.3.54a Timeslot Resource Related Information LCR ................................................................. 692
9.2.3.55 Power Resource Related Information ............................................................................... 692
9.2.3.56a E-PUCCH Offset ............................................................................................................. 692
9.2.3.56 E-PUCCH Offset ............................................................................................................... 692
9.2.3.57 E-DCH TDD Maximum Bitrate ....................................................................................... 692
9.2.3.58 LTGI Presence ................................................................................................................... 692
9.2.3.59 E-HICH Time Offset ........................................................................................................ 692
9.2.3.59a E-HICH Time Offset LCR ............................................................................................. 693
9.2.3.60 E-DCH TDD Capacity Consumption Law ....................................................................... 693
9.2.3.61 E-DCH HARQ Power Offset TDD ...................................................................................... 693
9.2.3.61a E-DCH MAC-d Flow Retransmission Timer ..................................................................... 693
9.2.3.62 SNPL Reporting Type ....................................................................................................... 694
9.2.3.63 Maximum Generated Received Total Wide Band Power in Other Cells .............................. 694
9.2.3.64 E-DCH Non-scheduled Grant Information 7.68Mcps TDD ................................................ 694
9.2.3.65 E-DCH TDD Information 7.68Mcps .................................................................................. 694
9.2.3.66 E-DCH TDD Maximum Bitrate 7.68Mcps ....................................................................... 695
9.2.3.67 E-DCH Physical Layer Category LCR .............................................................................. 695
9.2.3.67A Extended E-DCH Physical Layer Category LCR ................................................................. 695
9.2.3.68 E-HICH Type .................................................................................................................. 695
9.2.3.69 Maximum Target Received Total Wide Band Power LCR .............................................. 695
9.2.3.70 MBMSFN Only Mode Indicator ................................................................................... 696
9.2.3.71 MBMSFN Only Mode Capability ................................................................................ 696
9.2.3.72 HS-DSCH Common System Information LCR ................................................................. 696
9.2.3.73 HS-DSCH Paging System Information LCR ................................................................. 698
9.2.3.74 HS-DSCH Common System Information Response LCR ................................................. 699
9.2.3.75 HS-DSCH Paging System Information Response LCR ....................................................... 700
9.2.3.76 Common MAC Flow ID LCR ...................................................................................... 701
9.2.3.77 HSDPA Associated PICH Information LCR ................................................................. 701
9.2.3.78 Common MAC Flows To Delete LCR .......................................................................... 701
9.2.3.79 Common E-DCH System Information LCR ................................................................. 702
9.2.3.80 Common E-DCH System Information Response LCR ................................................... 704
9.2.3.81 Common E-DCH MAC-d Flow Specific Information LCR .............................................. 704
9.2.3.82 Enhanced UE DRX Information LCR ................................................................. 705
9.2.3.83 Common E-PUCH Information LCR ......................................................................... 705
9.2.3.84 Common E-RNTI Information LCR ................................................................. 706
9.2.3.85 Paging MAC Flows To Delete LCR ............................................................................ 707
9.2.3.86 Common E-DCH MAC-d Flows To Delete LCR ............................................................ 707
9.2.3.87 Common E-DCH MAC-d Flow ID LCR ..................................................................... 707
9.2.3.88 HS-SCCH ID LCR ....................................................................................................... 707
9.2.3.89 BCCH Specific HS-DSCH RNTI Information LCR ....................................................... 707
9.2.3.90 MAC-es Maximum Bit Rate LCR ............................................................................. 708
9.2.3.91 Semi-Persistent scheduling Capability LCR ................................................................. 708
9.2.3.92 Continuous Packet Connectivity DRX Capability LCR ................................................. 708
9.2.3.93 Continuous Packet Connectivity DRX Information LCR .......................................... 708
9.2.3.94 Continuous Packet Connectivity DRX Information To Modify LCR ......................... 709
9.2.3.95 Continuous Packet Connectivity DRX Information Response LCR ....................... 710
9.2.3.96 HS-DSCH Semi-Persistent scheduling Information LCR ........................................... 711
9.2.3.96a HS-DSCH Semi-Persistent scheduling Information to modify LCR ......................... 712
9.2.3.97 E-DCH Semi-Persistent scheduling Information LCR ............................................... 713
9.2.3.97a E-DCH Semi-Persistent scheduling Information to modify LCR ............................... 714
9.2.3.98 HS-DSCH Semi-Persistent scheduling Information Response LCR ...................... 715
9.2.3.99 E-DCH Semi-Persistent scheduling Information Response LCR ............................ 717
9.2.3.100 HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR ............................. 718
9.2.3.101 E-DCH Semi-Persistent scheduling Deactivate Indicator LCR ................................. 718
9.2.3.102 Idle Interval Information ......................................................................................... 718
9.2.3.103 HS-SICH Reference Signal Information ................................................................. 719
9.2.3.104 UE Selected MBMS Service Information ................................................................... 720
9.2.3.105 Best Cell Portions LCR ............................................................................................ 720
9.2.3.106 Cell Portion Capability LCR .................................................................................... 721
9.2.3.107 Cell Portion LCR ID ............................................................................................... 721
9.2.3.108 Number Of Reported Cell Portions LCR ................................................................. 721
9.2.3.109 TS0 Capability LCR ............................................................................................... 721
9.2.3.110 UE TS0 Capability LCR .......................................................................................... 721
9.2.3.111 DCH Measurement Occasion Information ............................................................... 722
9.2.3.112 Adaptive Special Burst Power Capability LCR ......................................................... 723
9.3 Message and Information Element Abstract Syntax (with ASN.1) ............................................... 724
9.3.0 General .......................................................................................................................... 724
9.3.1 Usage of Private Message mechanism for non-standard use .................................................. 724
9.3.2 Elementary Procedure Definitions .................................................................................... 724
9.3.3 PDU Definitions ........................................................................................................... 742
9.3.4 Information Elements Definitions ....................................................................................... 993
9.3.5 Common Definitions ....................................................................................................... 1192
9.3.6 Constant Definitions ...................................................................................................... 1193
9.3.7 Container Definitions ..................................................................................................... 1217
9.4 Message Transfer Syntax ..................................................................................................... 1222
9.5 Timers .................................................................................................................................. 1222

10 Handling of Unknown, Unforeseen and Erroneous Protocol Data ................................................. 1222
10.1 General .......................................................................................................................... 1222
Foreword

This Technical Specification has been produced by the 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 this TS, 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 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.
1 Scope

The present document specifies the radio network layer signalling protocol called Node B Application Part (NBAP) specification to be used for Control Plane over Iub Interface.

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 25.401: "UTRAN Overall Description".
[2] 3GPP TS 25.426: "UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams".
[7] 3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
[8] 3GPP TS 25.212: "Multiplexing and channel coding (FDD)".
[9] 3GPP TS 25.213: "Spreading and modulation (FDD)".
[10] 3GPP TS 25.214: "Physical layer procedures (FDD)".
[14] 3GPP TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".
[15] 3GPP TS 25.105: "UTRA (BS) TDD; Radio Transmission and Reception".
3GPP TS 25.221: "Physical channels and mapping of transport channels onto physical channels [TDD]".

3GPP TS 25.223: "Spreading and modulation (TDD)".

3GPP TS 25.224: "Physical Layer Procedures (TDD)".

3GPP TS 25.133: "Requirements for support of Radio Resource management (FDD)".

3GPP TS 25.123: "Requirements for support of Radio Resource management (TDD)".


3GPP TS 25.302: "Services Provided by the Physical Layer".

3GPP TR 25.921: "Guidelines and Principles for Protocol Description and Error Handling".

ICD-GPS-200: "Navstar GPS Space Segment/Navigation User Interface".

RTCM-SC104: "RTCM Recommended Standards for Differential GNSS Service (v.2.2)".

IETF RFC 2460 "Internet Protocol, Version 6 (IPv6) Specification".


3GPP TS 25.434: "UTRAN Iub Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams ".

3GPP TS 25.321: "MAC protocol specification".

3GPP TS 25.306: "UE Radio Access capabilities".

3GPP TS 25.222: "Multiplexing and Channel Coding (TDD)".

IETF RFC 2474 "Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers".

IETF RFC 2475 "An Architecture for Differentiated Services".

3GPP TS 25.304: "User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode".

3GPP TS 25.319: "Enhanced Uplink; Overall description; Stage 2".


3GPP TR 25.905: "Feasibility study on improvement of the Multimedia Broadcast / Multicast Service (MBMS) in UTRAN"

IETF RFC 3376 "Internet Group Management Protocol, Version 3".

IETF RFC 3810 "Multicast Listener Discovery Version 2 (MLDv2) for IPv6".

IS-GPS-200, Revision D, Navstar GPS Space Segment/Navigation User Interfaces, March 7th, 2006.


IS-GPS-800, Navstar GPS Space Segment/User Segment L1C Interfaces, March 31, 2008.


3 Definitions, Symbols and Abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply.

**CRNC Communication Context:** The CRNC Communication Context contains the necessary information for the CRNC for communication with a specific UE. The CRNC Communication Context is identified by the CRNC Communication Context ID.

**Elementary Procedure:** The NBAP protocol consists of Elementary Procedures (EPs). An Elementary Procedure is a unit of interaction between the CRNC and the Node B.

An EP consists of an initiating message and possibly a response message.

Two kinds of EPs are used:

- **Class 1:** Elementary Procedures with response (success or failure).
- **Class 2:** Elementary Procedures without response.

For **Class 1** EPs, the types of responses can be as follows:

**Successful**

- A signalling message explicitly indicates that the elementary procedure has been successfully completed with the receipt of the response.

**Unsuccessful**

- A signalling message explicitly indicates that the EP failed.

**Class 2** EPs are considered always successful.

**Node B Communication Context:** The Node B Communication Context contains the necessary information for the Node B for communication with a specific UE. The Node B Communication Context is created by the Radio Link Setup procedure and deleted by the Radio Link Deletion procedure when deleting the last Radio Link within the Node B Communication Context. The Node B Communication Context is identified by the Node B Communication Context ID.

**Prepared Reconfiguration:** A Prepared Reconfiguration exists when the Synchronised Radio Link Reconfiguration Preparation procedure has been completed successfully. The Prepared Reconfiguration does not exist anymore only after either of the procedures Synchronised Radio Link Reconfiguration Commit or Synchronised Radio Link Reconfiguration Cancellation has been completed. In particular, the Prepared Reconfiguration still exists if the object (e.g. Radio Link) concerned by the Synchronised Radio Link Reconfiguration (e.g. in the case of an HS-DSCH Setup) is removed, but the Node B Communication Context still exists.

3.2 Symbols

Void.

3.3 Abbreviations

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

[49] 3GPP TS 25.308: "High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2"
[50] 3GPP TS 36.133: "Requirements for support of radio resource management".
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-GPS</td>
<td>Assisted GPS</td>
</tr>
<tr>
<td>AICH</td>
<td>Acquisition Indicator Channel</td>
</tr>
<tr>
<td>ALCAP</td>
<td>Access Link Control Application Part</td>
</tr>
<tr>
<td>ASN.1</td>
<td>Abstract Syntax Notation One</td>
</tr>
<tr>
<td>BCCH</td>
<td>Broadcast Control Channel</td>
</tr>
<tr>
<td>CCCH</td>
<td>Common Control Physical Channel</td>
</tr>
<tr>
<td>CFN</td>
<td>Connection Frame Number</td>
</tr>
<tr>
<td>CM</td>
<td>Compressed Mode</td>
</tr>
<tr>
<td>CPICH</td>
<td>Common Pilot Channel</td>
</tr>
<tr>
<td>CRNC</td>
<td>Controlling Radio Network Controller</td>
</tr>
<tr>
<td>DCH</td>
<td>Dedicated Channel</td>
</tr>
<tr>
<td>DGANSS</td>
<td>Differential GANSS</td>
</tr>
<tr>
<td>DGPS</td>
<td>Differential GPS</td>
</tr>
<tr>
<td>DL</td>
<td>Downlink</td>
</tr>
<tr>
<td>DPCCH</td>
<td>Dedicated Physical Control Channel</td>
</tr>
<tr>
<td>DPCH</td>
<td>Dedicated Physical Channel</td>
</tr>
<tr>
<td>DPDCCH</td>
<td>Dedicated Physical Data Channel</td>
</tr>
<tr>
<td>DSCCH</td>
<td>Downlink Shared Channel</td>
</tr>
<tr>
<td>E-AGCH</td>
<td>E-DCH Absolute Grant Channel</td>
</tr>
<tr>
<td>E-DCH</td>
<td>Enhanced UL DCH</td>
</tr>
<tr>
<td>E-EGNOS</td>
<td>European Geostationary Navigation Overlay Service</td>
</tr>
<tr>
<td>E-HICH</td>
<td>E-DCH HARQ Acknowledgement Indicator Channel</td>
</tr>
<tr>
<td>E-PUCH</td>
<td>Enhanced Uplink Physical Channel (TDD only)</td>
</tr>
<tr>
<td>E-RNTI</td>
<td>E-DCH RNTI</td>
</tr>
<tr>
<td>E-RUCCH</td>
<td>E-DCH Random Access Uplink Control Channel (TDD only)</td>
</tr>
<tr>
<td>E-TFCI</td>
<td>E-DCH Transport Format Combination Indicator</td>
</tr>
<tr>
<td>E-UCCH</td>
<td>E-DCH Uplink Control Channel (TDD only)</td>
</tr>
<tr>
<td>FACH</td>
<td>Forward Access Channel</td>
</tr>
<tr>
<td>FDD</td>
<td>Frequency Division Duplex</td>
</tr>
<tr>
<td>F-DPCH</td>
<td>Fractional DPCH</td>
</tr>
<tr>
<td>FP</td>
<td>Frame Protocol</td>
</tr>
<tr>
<td>FPACH</td>
<td>Fast Physical Access Channel (TDD only)</td>
</tr>
<tr>
<td>GAGAN</td>
<td>GPS Aided Geo Augmented Navigation</td>
</tr>
<tr>
<td>GANSS</td>
<td>Galileo and Additional Navigation Satellite Systems</td>
</tr>
<tr>
<td>GLONASS</td>
<td>Global Navigation Satellite System</td>
</tr>
<tr>
<td>GNSS</td>
<td>Global Navigation Satellite System</td>
</tr>
<tr>
<td>GPS</td>
<td>Global Positioning System</td>
</tr>
<tr>
<td>HSDPA</td>
<td>High Speed Downlink Packet Access</td>
</tr>
<tr>
<td>HS-DSCH</td>
<td>High Speed Downlink Shared Channel</td>
</tr>
<tr>
<td>HS-PDSCH</td>
<td>High Speed Physical Downlink Shared Channel</td>
</tr>
<tr>
<td>HS-SCCH</td>
<td>High Speed Shared Control Channel</td>
</tr>
<tr>
<td>HS-SICH</td>
<td>High Speed Shared Information Channel</td>
</tr>
<tr>
<td>ICD</td>
<td>Interface Control Document</td>
</tr>
<tr>
<td>IMB</td>
<td>Integrated Mobile Broadcast</td>
</tr>
<tr>
<td>IP</td>
<td>Internet Protocol</td>
</tr>
<tr>
<td>IPDL</td>
<td>Idle Periods in the DownLink</td>
</tr>
<tr>
<td>ISCP</td>
<td>Interference Signal Code Power</td>
</tr>
<tr>
<td>L1</td>
<td>Layer 1</td>
</tr>
<tr>
<td>L2</td>
<td>Layer 2</td>
</tr>
<tr>
<td>MBMS</td>
<td>Multimedia Broadcast Multicast Service</td>
</tr>
<tr>
<td>MBSFN</td>
<td>MBMS over a Single Frequency Network</td>
</tr>
<tr>
<td>MFN</td>
<td>Multicast Frame Number</td>
</tr>
<tr>
<td>MIB</td>
<td>Master Information Block</td>
</tr>
<tr>
<td>MICH</td>
<td>MBMS Notification Indicator Channel</td>
</tr>
<tr>
<td>MSAS</td>
<td>Multi-functional Satellite Augmentation System</td>
</tr>
<tr>
<td>NBAP</td>
<td>Node B Application Part</td>
</tr>
<tr>
<td>NI</td>
<td>MBMS Notification Indicator</td>
</tr>
<tr>
<td>O&amp;M</td>
<td>Operation and Maintenance</td>
</tr>
<tr>
<td>PCCPCH</td>
<td>Primary Common Control Physical Channel</td>
</tr>
<tr>
<td>PCH</td>
<td>Paging Channel</td>
</tr>
<tr>
<td>PDSCH</td>
<td>Physical Downlink Shared Channel</td>
</tr>
<tr>
<td>PICH</td>
<td>Paging Indication Channel</td>
</tr>
</tbody>
</table>
4 General

4.1 Procedure Specification Principles

The principle for specifying the procedure logic is to specify the functional behaviour of the Node B exactly and completely. The CRNC functional behaviour is left unspecified. The Reset procedure is an exception from this principle.

The following specification principles have been applied for the procedure text in subclause 8:

- The procedure text discriminates between:
  
  1) Functionality which "shall" be executed

  The procedure text indicates that the receiving node "shall" perform a certain function Y under a certain condition. If the receiving node supports procedure X but cannot perform functionality Y requested in the REQUEST message of a Class 1 EP, the receiving node shall respond with the message used to report unsuccessful outcome for this procedure, containing an appropriate cause value.

  2) Functionality which "shall, if supported" be executed

  The procedure text indicates that the receiving node "shall, if supported," perform a certain function Y under a certain condition. If the receiving node supports procedure X, but does not support functionality Y, the receiving node shall proceed with the execution of the EP, possibly informing the requesting node about the not supported functionality.
- Any required inclusion of an optional IE in a response message is explicitly indicated in the procedure text. If the procedure text does not explicitly indicate that an optional IE shall be included in a response message, the optional IE shall not be included. For requirements on including Criticality Diagnostics IE, see section 10. For examples on how to use the Criticality Diagnostics IE, see Annex C.

4.2 Forwards and Backwards Compatibility

The forwards and backwards compatibility of the protocol is assured by a mechanism in which all current and future messages, and IEs or groups of related IEs, include Id and criticality fields that are coded in a standard format that will not be changed in the future. These parts can always be decoded regardless of the standard version.

4.3 Specification Notations

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

[FDD] This tagging of a word indicates that the word preceding the tag "]FDD"] applies only to FDD. This tagging of a heading indicates that the heading preceding the tag "]FDD"] and the section following the heading applies only to FDD.

[TDD] This tagging of a word indicates that the word preceding the tag "]TDD"] applies only to TDD, including 3.84Mcps TDD and 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "]TDD"] and the section following the heading applies only to TDD, including 3.84Mcps TDD and 1.28Mcps TDD.

[3.84Mcps TDD] This tagging of a word indicates that the word preceding the tag "]3.84Mcps TDD"] applies only to 3.84Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "]3.84Mcps TDD"] and the section following the heading applies only to 3.84Mcps TDD.

[1.28Mcps TDD] This tagging of a word indicates that the word preceding the tag "]1.28Mcps TDD"] applies only to 1.28Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "]1.28Mcps TDD"] and the section following the heading applies only to 1.28Mcps TDD.

[7.68Mcps TDD] This tagging of a word indicates that the word preceding the tag "]7.68Mcps TDD"] applies only to 7.68Mcps TDD. This tagging of a heading indicates that the heading preceding the tag "]7.68Mcps TDD"] and the section following the heading applies only to 7.68Mcps TDD.

[FDD - …] This tagging indicates that the enclosed text following the "]FDD - " applies only to FDD. Multiple sequential paragraphs applying only to FDD are enclosed separately to enable insertion of TDD specific (or common) paragraphs between the FDD specific paragraphs.

[TDD - …] This tagging indicates that the enclosed text following the "]TDD - " applies only to TDD, including 3.84Mcps TDD, 7.68Mcps TDD and 1.28Mcps TDD. Multiple sequential paragraphs applying only to TDD are enclosed separately to enable insertion of FDD specific (or common) paragraphs between the TDD specific paragraphs.

[3.84Mcps TDD - …] This tagging indicates that the enclosed text following the "]3.84Mcps TDD - " applies only to 3.84Mcps TDD. Multiple sequential paragraphs applying only to 3.84Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 3.84Mcps TDD specific paragraphs.

[1.28Mcps TDD - …] This tagging indicates that the enclosed text following the "]1.28Mcps TDD - " applies only to 1.28Mcps TDD. Multiple sequential paragraphs applying only to 1.28Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 1.28Mcps TDD specific paragraphs.

[7.68Mcps TDD - …] This tagging indicates that the enclosed text following the "]7.68Mcps TDD - " applies only to 7.68Mcps TDD. Multiple sequential paragraphs applying only to 7.68Mcps TDD are enclosed separately to enable insertion of FDD and TDD specific (or common) paragraphs between the 7.68Mcps TDD specific paragraphs.
5 NBAP Services

5.1 Parallel Transactions

Unless explicitly indicated in the procedure description, at any instance in time one protocol peer shall have a maximum of one ongoing dedicated NBAP procedure related to a certain Node B Communication Context.

6 Services Expected from Signalling Transport

NBAP requires an assured in-sequence delivery service from the signalling bearer, and notification if the assured in-sequence delivery service is no longer available.

7 Functions of NBAP

The NBAP protocol provides the following functions:

- Cell Configuration Management. This function gives the CRNC the possibility to manage the cell configuration information in a Node B.

- Common Transport Channel Management. This function gives the CRNC the possibility to manage the configuration of Common Transport Channels in a Node B.

- System Information Management. This function gives the CRNC the ability to manage the scheduling of System Information to be broadcast in a cell.

- Resource Event Management. This function gives the Node B the ability to inform the CRNC about the status of Node B resources.

- Configuration Alignment. This function gives the CRNC and the Node B the possibility to verify and enforce that both nodes have the same information on the configuration of the radio resources.

- Measurements on Common Resources. This function allows the CRNC to initiate measurements on common resources in the Node B. The function also allows the Node B to report the result of the measurements.

- Radio Link Management. This function allows the CRNC to manage radio links using dedicated resources in a Node B.
- Radio Link Supervision. This function allows the CRNC to report failures and restorations of a Radio Link.

- Compressed Mode Control [FDD]. This function allows the CRNC to control the usage of compressed mode in a Node B.

- Measurements on Dedicated Resources. This function allows the CRNC to initiate measurements on dedicated resources in the Node B. The function also allows the Node B to report the result of the measurements.

- DL Power Drifting Correction [FDD]. This function allows the CRNC to adjust the DL power level of one or more Radio Links in order to avoid DL power drifting between the Radio Links.

- Reporting of General Error Situations. This function allows reporting of general error situations, for which function specific error messages have not been defined.

- Physical Shared Channel Management. This function allows the CRNC to manage physical resources in the Node B belonging to High Speed Downlink Shared Channels and High Speed Shared Control Channels [TDD and High Speed Shared Indication Channels and Shared Channels (USCH/DSCH)].

- DL Power Timeslot Correction [TDD]. This function enables the Node B to apply an individual offset to the transmission power in each timeslot according to the downlink interference level at the UE.

- Cell Synchronisation [1.28 Mcps TDD and 3.84 Mcps TDD]. This function allows the synchronisation of cells or Node Bs via the air interface.

- Information Exchange. This function allows the CRNC to initiate information provision from the Node B. The function also allows the Node B to report the requested information.

- Bearer Rearrangement. This function allows the Node B to indicate the need for bearer re-arrangement for a Node B Communication Context. The function also allows the CRNC to re-arrange bearers for a Node B Communication Context.

- MBMS Notification. This function allows the CRNC to send MBMS Notification indicators to the Node B to be broadcasted in a cell.

- UE Status Notification [FDD and 1.28 Mcps TDD]. This function allows the CRNC to update UE related information stored in the Node B.

- Exchanging information about the secondary UL frequency. This function allows the CRNC to transfer information about the secondary UL frequency to the Node B and the Node B to transfer information about the secondary UL frequency to SRNC in Dual-Cell E-DCH operation.

The mapping between the above functions and NBAP elementary procedures is shown in the table below.
<table>
<thead>
<tr>
<th>Function</th>
<th>Elementary Procedure(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Configuration Management</td>
<td>a) Cell Setup&lt;br&gt;b) Cell Reconfiguration&lt;br&gt;c) Cell Deletion</td>
</tr>
<tr>
<td>Common Transport Channel Management</td>
<td>a) Common Transport Channel Setup&lt;br&gt;b) Common Transport Channel Reconfiguration&lt;br&gt;c) Common Transport Channel Deletion</td>
</tr>
<tr>
<td>System Information Management</td>
<td>System Information Update</td>
</tr>
<tr>
<td>Resource Event Management</td>
<td>a) Block Resource&lt;br&gt;b) Unblock Resource&lt;br&gt;c) Resource Status Indication</td>
</tr>
<tr>
<td>Configuration Alignment</td>
<td>a) Audit Required&lt;br&gt;b) Audit&lt;br&gt;c) Reset</td>
</tr>
<tr>
<td>Radio Link Supervision.</td>
<td>a) Radio Link Failure&lt;br&gt;b) Radio Link Restoration</td>
</tr>
<tr>
<td>Compressed Mode Control [FDD]</td>
<td>a) Radio Link Setup&lt;br&gt;b) Radio Link Addition&lt;br&gt;c) Compressed Mode Command&lt;br&gt;d) Unsynchronised Radio Link Reconfiguration&lt;br&gt;e) Synchronised Radio Link Reconfiguration Preparation&lt;br&gt;f) Synchronised Radio Link Reconfiguration Commit&lt;br&gt;g) Synchronised Radio Link Reconfiguration Cancellation</td>
</tr>
<tr>
<td>Measurements on Dedicated Resources</td>
<td>a) Dedicated Measurement Initiation&lt;br&gt;b) Dedicated Measurement Reporting&lt;br&gt;c) Dedicated Measurement Termination&lt;br&gt;d) Dedicated Measurement Failure</td>
</tr>
<tr>
<td>DL Power Drifting Correction [FDD]</td>
<td>Downlink Power Control</td>
</tr>
<tr>
<td>Reporting of General Error Situations</td>
<td>Error Indication</td>
</tr>
<tr>
<td>Physical Shared Channel Management</td>
<td>Physical Shared Channel Reconfiguration</td>
</tr>
<tr>
<td>DL Power Timeslot Correction [TDD]</td>
<td>Downlink Power Timeslot Control</td>
</tr>
<tr>
<td>Information Exchange</td>
<td>a) Information Exchange Initiation&lt;br&gt;b) Information Reporting&lt;br&gt;c) Information Exchange Termination&lt;br&gt;d) Information Exchange Failure</td>
</tr>
<tr>
<td>Bearer Re-arrangement</td>
<td>a) Bearer Re-arrangement Indication&lt;br&gt;b) Unsynchronised Radio Link Reconfiguration&lt;br&gt;c) Synchronised Radio Link Reconfiguration Preparation&lt;br&gt;d) Synchronised Radio Link Reconfiguration Commit&lt;br&gt;e) Synchronised Radio Link Reconfiguration Cancellation</td>
</tr>
<tr>
<td>MBMS Notification</td>
<td>a) MBMS Notification Update</td>
</tr>
<tr>
<td>UE Status Notification [FDD and 1.28 Mcps TDD]</td>
<td>a) UE Status Update</td>
</tr>
<tr>
<td>Exchanging information about the secondary UL frequency</td>
<td>a) Secondary UL Frequency Reporting&lt;br&gt;b) Secondary UL Frequency Update</td>
</tr>
</tbody>
</table>
8 NBAP Procedures

8.1 Elementary Procedures

NBAP procedures are divided into common procedures and dedicated procedures.

- NBAP common procedures are procedures that request initiation of a Node B Communication Context for a specific UE in Node B or are not related to a specific UE. NBAP common procedures also incorporate logical O&M [1] procedures.

- NBAP dedicated procedures are procedures that are related to a specific Node B Communication Context in Node B. This Node B Communication Context is identified by a Node B Communication Context identity.

The two types of procedures may be carried on separate signalling links.

In the following tables, all EPs are divided into Class 1 and Class 2 EPs:
### Table 2: Class 1

<table>
<thead>
<tr>
<th>Elementary Procedure</th>
<th>Message</th>
<th>Successful Outcome</th>
<th>Unsuccessful Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Response message</td>
<td>Response message</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CELL SETUP RESPONSE</td>
<td>CELL SETUP FAILURE</td>
</tr>
<tr>
<td>Cell Setup</td>
<td>CELL SETUP REQUEST</td>
<td>CELL SETUP RESPONSE</td>
<td>CELL SETUP FAILURE</td>
</tr>
<tr>
<td>Cell Reconfiguration</td>
<td>CELL RECONFIGURATION REQUEST</td>
<td>CELL RECONFIGURATION RESPONSE</td>
<td>CELL RECONFIGURATION FAILURE</td>
</tr>
<tr>
<td>Cell Deletion</td>
<td>CELL DELETION REQUEST</td>
<td>CELL DELETION RESPONSE</td>
<td>CELL DELETION RESPONSE</td>
</tr>
<tr>
<td>Common Transport</td>
<td>COMMON TRANSPORT CHANNEL SETUP REQUEST</td>
<td>COMMON TRANSPORT CHANNEL SETUP REQUEST</td>
<td>COMMON TRANSPORT CHANNEL SETUP FAILURE</td>
</tr>
<tr>
<td>Channel Setup</td>
<td>COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST</td>
<td>COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE</td>
<td>COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE</td>
</tr>
<tr>
<td>Common Transport</td>
<td>COMMON TRANSPORT CHANNEL SETUP REQUEST</td>
<td>COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST</td>
<td>COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE</td>
</tr>
<tr>
<td>Channel Reconfiguration</td>
<td>COMMON TRANSPORT CHANNEL DETECTION REQUEST</td>
<td>COMMON TRANSPORT CHANNEL DETECTION REQUEST</td>
<td>COMMON TRANSPORT CHANNEL DETECTION RESPONSE</td>
</tr>
<tr>
<td>Physical Shared</td>
<td>PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST</td>
<td>PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST</td>
<td>PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE</td>
</tr>
<tr>
<td>Channel Reconfiguration</td>
<td>PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST</td>
<td>PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST</td>
<td>PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE</td>
</tr>
<tr>
<td>Audit</td>
<td>AUDIT REQUEST</td>
<td>AUDIT RESPONSE</td>
<td>AUDIT FAILURE</td>
</tr>
<tr>
<td>Block Resource</td>
<td>BLOCK RESOURCE REQUEST</td>
<td>BLOCK RESOURCE RESPONSE</td>
<td>BLOCK RESOURCE FAILURE</td>
</tr>
<tr>
<td>Radio Link Setup</td>
<td>RADIO LINK SETUP REQUEST</td>
<td>RADIO LINK SETUP RESPONSE</td>
<td>RADIO LINK SETUP FAILURE</td>
</tr>
<tr>
<td>System Information</td>
<td>SYSTEM INFORMATION UPDATE REQUEST</td>
<td>SYSTEM INFORMATION UPDATE RESPONSE</td>
<td>SYSTEM INFORMATION UPDATE FAILURE</td>
</tr>
<tr>
<td>Update</td>
<td>COMMON MEASUREMENT INITIATION REQUEST</td>
<td>COMMON MEASUREMENT INITIATION RESPONSE</td>
<td>COMMON MEASUREMENT INITIATION FAILURE</td>
</tr>
<tr>
<td>Radio Link Addition</td>
<td>RADIO LINK ADDITION REQUEST</td>
<td>RADIO LINK ADDITION RESPONSE</td>
<td>RADIO LINK ADDITION FAILURE</td>
</tr>
<tr>
<td>Radio Link Deletion</td>
<td>RADIO LINK DELETION REQUEST</td>
<td>RADIO LINK DELETION RESPONSE</td>
<td>RADIO LINK DELETION RESPONSE</td>
</tr>
<tr>
<td>Synchronised</td>
<td>RADIO LINK RECONFIGURATION PREPARE</td>
<td>RADIO LINK RECONFIGURATION READY</td>
<td>RADIO LINK RECONFIGURATION FAILURE</td>
</tr>
<tr>
<td>Radio Link</td>
<td>RADIO LINK RECONFIGURATION REQUEST</td>
<td>RADIO LINK RECONFIGURATION RESPONSE</td>
<td>RADIO LINK RECONFIGURATION FAILURE</td>
</tr>
<tr>
<td>Reconfiguration</td>
<td>RADIO LINK RECONFIGURATION REQUEST</td>
<td>RADIO LINK RECONFIGURATION RESPONSE</td>
<td>RADIO LINK RECONFIGURATION FAILURE</td>
</tr>
<tr>
<td>Dedicated Measurement</td>
<td>DEDICATED MEASUREMENT INITIATION REQUEST</td>
<td>DEDICATED MEASUREMENT INITIATION RESPONSE</td>
<td>DEDICATED MEASUREMENT INITIATION FAILURE</td>
</tr>
<tr>
<td>Reset</td>
<td>RESET REQUEST</td>
<td>RESET RESPONSE</td>
<td>RESET RESPONSE</td>
</tr>
<tr>
<td>Cell Synchronisation</td>
<td>CELL Synchronisation INITIATION REQUEST</td>
<td>CELL Synchronisation INITIATION RESPONSE</td>
<td>CELL Synchronisation INITIATION FAILURE</td>
</tr>
<tr>
<td>Initiative [TDD]</td>
<td>CELL Synchronisation INITIATION REQUEST</td>
<td>CELL Synchronisation INITIATION RESPONSE</td>
<td>CELL Synchronisation INITIATION FAILURE</td>
</tr>
<tr>
<td>Cell Synchronisation</td>
<td>CELL Synchronisation RECONFIGURATION REQUEST</td>
<td>CELL Synchronisation RECONFIGURATION REQUEST</td>
<td>CELL Synchronisation RECONFIGURATION FAILURE</td>
</tr>
<tr>
<td>Reconfiguration</td>
<td>CELL Synchronisation RECONFIGURATION REQUEST</td>
<td>CELL Synchronisation RECONFIGURATION REQUEST</td>
<td>CELL Synchronisation RECONFIGURATION FAILURE</td>
</tr>
<tr>
<td>[TDD]</td>
<td>CELL Synchronisation ADJUSTMENT REQUEST</td>
<td>CELL Synchronisation ADJUSTMENT RESPONSE</td>
<td>CELL Synchronisation ADJUSTMENT FAILURE</td>
</tr>
<tr>
<td>Information</td>
<td>INFORMATION EXCHANGE INITIATION REQUEST</td>
<td>INFORMATION EXCHANGE INITIATION RESPONSE</td>
<td>INFORMATION EXCHANGE INITIATION FAILURE</td>
</tr>
<tr>
<td>Exchange Initiative</td>
<td>INFORMATION EXCHANGE INITIATION REQUEST</td>
<td>INFORMATION EXCHANGE INITIATION RESPONSE</td>
<td>INFORMATION EXCHANGE INITIATION FAILURE</td>
</tr>
<tr>
<td>Elementary Procedure</td>
<td>Message</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------------------</td>
<td>--------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource Status Indication</td>
<td>RESOURCE STATUS INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audit Required</td>
<td>AUDIT REQUIRED INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Measurement Reporting</td>
<td>COMMON MEASUREMENT REPORT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Measurement Termination Request</td>
<td>COMMON MEASUREMENT TERMINATION REQUEST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Measurement Failure</td>
<td>COMMON MEASUREMENT FAILURE INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Synchronised Radio Link Reconfiguration Commit</td>
<td>RADIO LINK RECONFIGURATION COMMIT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Synchronised Radio Link Reconfiguration Cancellation</td>
<td>RADIO LINK RECONFIGURATION CANCEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Link Failure</td>
<td>RADIO LINK FAILURE INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Link Restoration</td>
<td>RADIO LINK RESTORE INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dedicated Measurement Reporting</td>
<td>DEDICATED MEASUREMENT REPORT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dedicated Measurement Termination Request</td>
<td>DEDICATED MEASUREMENT TERMINATION REQUEST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dedicated Measurement Failure</td>
<td>DEDICATED MEASUREMENT FAILURE INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Downlink Power Control [FDD]</td>
<td>DL POWER CONTROL REQUEST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressed Mode Command [FDD]</td>
<td>COMPRESSED MODE COMMAND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unblock Resource</td>
<td>UNBLOCK RESOURCE INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Error Indication</td>
<td>ERROR INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Downlink Power Timeslot Control [TDD]</td>
<td>DL POWER TIMESLOT CONTROL REQUEST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Link Pre-emption</td>
<td>RADIO LINK PREEMPTION REQUIRED INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Synchronisation Reporting [TDD]</td>
<td>CELL SYNCHRONISATION REPORT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Synchronisation Termination [TDD]</td>
<td>CELL SYNCHRONISATION TERMINATION REQUEST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Synchronisation Failure [TDD]</td>
<td>CELL SYNCHRONISATION FAILURE INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Reporting</td>
<td>INFORMATION REPORT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Exchange Termination</td>
<td>INFORMATION EXCHANGE TERMINATION REQUEST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Exchange Failure</td>
<td>INFORMATION EXCHANGE FAILURE INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bearer Re-arrangement</td>
<td>BEARER REARRANGEMENT INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Link Activation</td>
<td>RADIO LINK ACTIVATION COMMAND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Link Parameter Update</td>
<td>RADIO LINK PARAMETER UPDATE INDICATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBMS Notification Update</td>
<td>MBMS NOTIFICATION UPDATE COMMAND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UE Status Update [FDD and 1.28 Mcps TDD]</td>
<td>UE STATUS UPDATE COMMAND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary UL Frequency Reporting</td>
<td>SECONDARY UL FREQUENCY REPORT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary UL Frequency Update</td>
<td>SECONDARY UL FREQUENCY UPDATE INDICATION</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 8.2 NBAP Common Procedures

#### 8.2.1 Common Transport Channel Setup

##### 8.2.1.1 General

This procedure is used for establishing the necessary resources in Node B, regarding Secondary CCPCH, PICH, PRACH, AICH [FDD], FACH, PCH, MICH, RACH, E-RUCCH [3.84 Mcps and 7.68 Mcps TDD], PLCCH [1.28Mcps TDD] and FPACH [1.28Mcps TDD].
8.2.1.2 Successful Operation

The procedure is initiated with a COMMON TRANSPORT CHANNEL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

One message can configure only one of the following combinations:

- [FDD - one Secondary CCPCH, and FACHs, PCH, PICH and MICH related to that Secondary CCPCH], or
- [TDD - one CCTrCH consisting of Secondary CCPCHs and FACHs, PCH with the corresponding PICH and MICH related to that group of Secondary CCPCHs], or
- one [1.28Mcps TDD - or more] PRACH, one RACH and one AICH [FDD] and one FPACH[1.28Mcps TDD] related to that PRACH, or
- one PLCCH [1.28Mcps TDD], or
- one E-RUCCH [3.84Mcps TDD and 7.68Mcps TDD].

Secondary CCPCH:

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the Secondary CCPCH IE, the Node B shall configure and activate the indicated Secondary CCPCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[FDD - If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the FDD S-CCPCH Frame Offset IE within the Secondary CCPCH IE, the Node B shall apply the indicated frame offset for the concerned Secondary CCPCH.]

[TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the Secondary CCPCH IE, the Node B shall configure and activate the indicated Secondary CCPCH(s) according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[3.84Mcps TDD and 7.68Mcps TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the TFCI Presence IE, the Node B shall apply the indicated TFCI presence in the timeslot of the S-CCPCH. If all the S-CCPCHs defined in a timeslot do not have a TFCI Presence IE included, the Node B shall apply a TFCI field in the lowest numbered S-CCPCH of the timeslot.]

[TDD - FACHs and PCH may be mapped onto a CCTrCH which may consist of several Secondary CCPCHs]

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the FACH Parameters IE, the Node B shall configure and activate the indicated FACH(s) according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the PCH Parameters IE, the Node B shall configure and activate the concerned PCH and the associated PICH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[1.28Mcps TDD - If the PCH Power IE is included in the PCH Parameters IE of the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall use this value as the power at which the PCH shall be transmitted.]

[TDD - If the TSTD Indicator IE for the S-CCPCH is included and is set to "active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall activate TSTD diversity for all S-CCPCHs defined in the message]
that are not beacon channels [19,21]. If the \textit{TSTD Indicator} IE is not included or is set to "not active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall not activate TSTD diversity for the S-CCPCHs defined in the message.]

[1.28 Mcps TDD - If the \textit{TSTD Indicator} IE for the PICH is included and is set to "active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST message, the Node B shall activate TSTD diversity for the PICH if it is not a beacon channel [19,21]. If the \textit{TSTD Indicator} IE is set to "not active" or the \textit{TSTD Indicator} IE is not included for the PICH in the COMMON TRANSPORT CHANNEL SETUP REQUEST message, the Node B shall not activate TSTD diversity for the PICH.]

If the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message contains the \textit{MICH Parameters} IE, the Node B shall configure and activate the concerned MICH according to the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message.

[FDD - When the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message contains the \textit{Modulation Power Offset} IE, in the \textit{Secondary CCPCH} IE, the Node B shall apply the indicated modulation, and power offset in case of 16QAM, for the concerned Secondary CCPCH.]

[FDD - When the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message contains the \textit{Extended Secondary CCPCH Slot Format} IE, in the \textit{Secondary CCPCH} IE, the Node B shall ignore the \textit{Secondary CCPCH Slot Format} IE and apply the slot format indicated in the \textit{Extended Secondary CCPCH Slot Format} IE.]

[3.84 Mcps TDD and 7.68 Mcps TDD - When the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message contains the \textit{Modulation} IE, the Node B shall apply the indicated modulation for the CCTrCH.]

[3.84 Mcps TDD and 7.68 Mcps TDD - If a timeslot has been configured for MBSFN operation then the contents of the \textit{3.84 Mcps TDD - Midamble Shift and Burst Type} IE of 7.68 Mcps TDD - Midamble Shift and Burst Type Type 7.68 Mcps IE shall be ignored and burst type 4, Kcell=1 shall be used [19].]

[1.28 Mcps TDD - If the cell is operating in MBSFN only mode, the \textit{MBSFN Special Time Slot LCR} IE indicates from CRNC to the Node B whether the channel is deployed on the MBSFN Special Time Slot for MBSFN only mode [19].]

[1.28 Mcps TDD - When the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message contains the \textit{UARFCN} IE in the \textit{Secondary CCPCHs} IE, this Secondary CCPCH providing MBMS service in non-MBSFN only mode shall be setup on the secondary frequency indicated by the \textit{UARFCN} IE.]

[3.84 Mcps TDD IMB - If the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message contains the \textit{IMB Parameters} IE within the \textit{Secondary CCPCH} IE, the Node B shall apply 3.84 Mcps MBSFN IMB operation.]

[3.84 Mcps TDD IMB - If the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message contains the \textit{Last DL Channelisation Code Number} IE within the \textit{IMB Parameters} IE, the Node B may use the indicated range of the DL channelisation codes in the new configuration.]

**PRACH:**

When the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message contains the \textit{PRACH} IE, the Node B shall configure and activate the indicated PRACH and the associated RACH [FDD - and the associated AICH] according to the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message.

[1.28 Mcps TDD - The resource indicated by the \textit{PRACH} IE is used for RACH random access as well as E-DCH random access. The way to differentiate the two access type on PRACH physical resource shall be operated according to [21].]

[1.28 Mcps TDD - When the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message contains the \textit{UARFCN} IE in the \textit{PRACH} IE, the PRACH shall be set up on the secondary frequency indicated by the \textit{UARFCN} IE.]

[1.28 Mcps TDD - FPACH]:

If the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message contains the \textit{FPACH} IE, the Node B shall configure and activate the indicated FPACH according to the \textbf{COMMON TRANSPORT CHANNEL SETUP REQUEST} message.

Where more than one FPACH is defined, the FPACH that Node B should use is defined by the UpPCH signature (SYNC_UL) code that the UE used. The FPACH number = N mod M where N denotes the signature number (0..7) and
M denotes the number of FPACHs that are defined in a cell. The FPACH number is in ascending order by Common Physical Channel ID IE contained in the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the FPACH IE contains the UARFCN IE, the FPACH shall be set up on the secondary frequency indicated by the UARFCN IE.

When the FPACH is set up on the secondary frequency of a multi-frequency cell, if the PRACH LCR IE contains the UARFCN IE, the RACH IE included in the PRACH LCR IE shall be ignored; otherwise all IEs included in the PRACH LCR IE shall be ignored.

[1.28Mcps TDD - PLCCH]:
If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the PLCCH IE, the Node B shall configure and activate the indicated PLCCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message when one or more of the PLCCH sequence numbers have been assigned to one or more radio links.]

[3.84Mcps TDD and 7.68Mcps TDD - E-RUCCH]:
When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the [3.84Mcps TDD - E-RUCCH IE] [7.68Mcps TDD - E-RUCCH 7.68Mcps IE], the Node B shall configure and activate the indicated E-RUCCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

RACH, FACH and PCH:
If the TNL QoS IE is included for a RACH, FACH or PCH and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related RACH, FACH or PCH.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the Broadcast Reference IE in the FACH Parameters IE, and one or more established FACH common transport channels with the same Broadcast Reference, the same Transport Format Set, the same ToAWS and the same ToAWE exist (all of them in other distinct cells within the Node B), the Node B may include the Broadcast Common Transport Bearer Indication IE in the Common Transport Channel Information Response IE in the COMMON TRANSPORT CHANNEL SETUP RESPONSE message to inform the CRNC that the existing transport bearer, identified by Broadcast Common Transport Bearer Indication IE, shall be used instead of establishing a new transport bearer.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the Broadcast Reference IE in the FACH Parameters IE and no common transport channel with the same Broadcast Reference, the same Transport Format Set, the same ToAWS and the same ToAWE exists in another cell within the Node B, or if the Node B decides to establish a new transport bearer, the Node B may store the value of Broadcast Reference IE.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the IP Multicast Indication IE, and if supported, the Node B may join the indicated IP multicast group if it has not done so yet ([41] in case of IPv4, [42] in case of IPv6). If the Node B does join the IP multicast group, or is already joined to the IP multicast group as a result of a previous procedure, the Node B shall include the IP Multicast Data Bearer Indication IE in the COMMON TRANSPORT CHANNEL INFORMATION RESPONSE message to inform the CRNC that the existing IP multicast transport bearer, identified by IP Multicast Indication IE in the corresponding COMMON TRANSPORT CHANNEL SETUP REQUEST message, shall be used instead of using a IP unicast transport bearer. If the COMMON TRANSPORT CHANNEL INFORMATION RESPONSE message does not contain the IP Multicast Data Bearer Indication IE, the CRNC shall send FACH data frames on the IP unicast transport bearer. No matter whether the Node B has joined the indicated IP multicast group, a new transport bearer shall be established using the Transport Layer Address IE and Binding ID IE and FACH specific control frames, e.g. TIMING ADJUSTMENT, shall be sent on the established Iub transport bearer.

General:
After successfully configuring the requested common transport channels and the common physical channels, the Node B shall store the value of Configuration Generation ID IE and it shall respond with the COMMON TRANSPORT CHANNEL SETUP RESPONSE message with the Common Transport Channel ID IE, the Binding ID IE (if no Broadcast Common Transport Bearer Indication IE is included) and the Transport Layer Address IE (if no Broadcast Common Transport Bearer Indication IE is included) for the configured common transport channels.
If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes the Transport Layer Address and Binding ID IEs, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the indicated common transport channels.

After a successful procedure and once the transport bearers are established, the configured common transport channels and the common physical channels shall adopt the state Enabled [6] in the Node B and the common physical channels exist on the Uu interface.

### 8.2.1.3 Unsuccessful Operation

![Figure 2: Common Transport Channel Setup procedure, Unsuccessful Operation](image)

If the Node B is not able to support all or part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall remain in the same state as prior to the procedure. The Cause IE shall be set to an appropriate value. The value of Configuration Generation ID IE from the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with a COMMON TRANSPORT CHANNEL SETUP FAILURE message.

Typical cause values are as follows:

**Radio Network Layer Cause:**
- Cell not available
- Power level not supported
- Node B Resources unavailable
- Requested Tx Diversity Mode not supported
- UL SF not supported
- DL SF not supported
- Common Transport Channel Type not supported
- MICH not supported

**Transport Layer Cause:**
- Transport Resources Unavailable

**Miscellaneous Cause:**
- O&M Intervention
- Control processing overload
- HW failure
8.2.1.4 Abnormal Conditions

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the Secondary CCPCH IE, and that IE contains [FDD - neither the FACH Parameters IE nor the PCH Parameters IE] [TDD - neither the FACH IE nor the PCH IE], the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

[TDD - If the FACH CCTrCH Id IE or the PCH CCTrCH Id IE does not equal the SCCPCH CCTrCH Id IE, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[TDD - If the TDD Physical Channel Offset IE, the Repetition Period IE, and the Repetition Length IE are not equal for each SCCPCH configured within the CTCh or the TFCI Presence IE are not equal for any two SCCPCHs configured in the same timeslot, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[1.28Mcps TDD - If the Common Transport Channel ID IE, and the Transport Format Set IE are not equal for each RACH configured in PRACH, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[1.28Mcps TDD - If the UARFCN IE in the PRACH LCR IE is not equal to the UARFCN IE in any other PRACH LCR IE configured on one RACH, or if the UARFCN IE in PRACH LCR IE is not equal to the UARFCN IE in FPACH IE, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

If the state is already Enabled or Disabled [6] for at least one channel in the COMMON TRANSPORT CHANNEL SETUP REQUEST message which is received, the Node B shall reject the configuration of all channels with the Cause IE set to “Message not compatible with receiver state”.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the Transport Layer Address IE or the Binding ID IE, and not both are present for a transport channel intended to be established, the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the MICH Parameters IE but not the FACH Parameters IE [FDD - for one S-CCPCH], the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains a Broadcast Reference IE value already associated to an existing FACH in the same cell, or if the message contains the same value for the Broadcast Reference IEs included in the FACH Parameters IEs for several FACHs in the list of FACHs defined on the Secondary CCPCH, the Node B shall reject the procedure, using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains both the Broadcast Reference IE and the IP Multicast Indication IE, the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

[3.84Mcps TDD IMB - If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the IMB Parameters IE that includes the Last DL Channelisation Code Number IE and if the Secondary CCPCH Slot Format IE is set to “1”, then the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.]

If ALCAP is not used, if the COMMON TRANSPORT CHANNEL SETUP REQUEST message does not include the Transport Layer Address IE and the Binding ID IE in the FACH Parameters IE, PCH Parameters IE and/or [FDD-RACH Parameters][TDD - RACH] IE, then the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

8.2.2 Common Transport Channel Reconfiguration

8.2.2.1 General

This procedure is used for reconfiguring common transport channels and/or common physical channels, while they still might be in operation.
8.2.2.2 Successful Operation

![Figure 3: Common Transport Channel Reconfiguration, Successful Operation](image)

The procedure is initiated with a COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

One message can configure only one of the following combinations:

- [FDD - FACHs, one PCH, one PICH and/or one MICH related to one Secondary CCPCH], or
- [TDD - one CCTrCH consisting of Secondary CCPCHs and FACHs, PCH with the corresponding PICH and MICH related to that group of Secondary CCPCHs], or
- one RACH and/or one AICH[FDD] and/or one FPACH[1.28Mcps TDD] related to one PRACH, or
- [1.28Mcps TDD - One UpPCH].

SCCPCH:

[TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the SCCPCH Power IE, the Node B shall reconfigure the maximum power that the indicated S-CCPCH shall use.]

FACH:

If the FACH Parameters IE is present, the Node B shall reconfigure the indicated FACH(s).

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Max FACH Power IE, the Node B shall reconfigure the maximum power that the indicated FACH may use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the Max FACH Power IE, the Node B shall reconfigure the maximum power that the indicated FACH may use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the ToAWS IE, the Node B shall reconfigure the time of arrival window startpoint that the indicated FACH shall use. In case a transport bearer is used by several FACH channels in different cells, the reconfiguration of the time of arrival window startpoint requested in one cell shall be applied to all these FACH channels.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the ToAWE IE, the Node B shall reconfigure the time of arrival window endpoint that the indicated FACH shall use. In case a transport bearer is used by several FACH channels in different cells, the reconfiguration of the time of arrival window endpoint requested in one cell shall be applied to all these FACH channels.

If the TNL QoS IE is included and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related FACH.

PCH:

If the PCH Parameters IE is present, the Node B shall reconfigure the indicated PCH.

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the PCH Power IE, the Node B shall reconfigure the power that the PCH shall use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the PCH Power IE, the Node B shall reconfigure the power that the PCH shall use.]
If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the ToAWS IE, the Node B shall reconfigure the time of arrival window startpoint that the PCH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the ToAWE IE, the Node B shall reconfigure the time of arrival window endpoint that the PCH shall use.

If the TNL QoS IE is included and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related PCH.

**PICH:**

If the *PICH Parameters* IE is present, the Node B shall reconfigure the indicated PICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PICH Power* IE, the Node B shall reconfigure the power that the PICH shall use.

**MICH:**

If the *MICH Parameters* IE is present, the Node B shall reconfigure the MICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *MICH Power* IE, the Node B shall reconfigure the power that the MICH shall use.

**[FDD - PRACH]:**

If the *PRACH Parameters* IE is present, the Node B shall reconfigure the indicated PRACH(s).

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Preamble Signatures* IE, the Node B shall reconfigure the preamble signatures that the indicated PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Allowed Slot Format Information* IE, the Node B shall reconfigure the slot formats that the indicated PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *RACH Sub Channel Numbers* IE, the Node B shall reconfigure the sub channel numbers that the indicated PRACH shall use.

If the TNL QoS IE is included and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related RACH.

**[FDD - AICH]:**

If the *AICH Parameters* IE is present, the Node B shall reconfigure the indicated AICH(s).

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *AICH Power* IE, the Node B shall reconfigure the power that the indicated AICH shall use.

**[1.28Mcps TDD - FPACH]:**

If the *FPACH Parameters* IE is included, the Node B shall reconfigure the indicated FPACH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FPACH Power* IE, the Node B shall reconfigure the power that the FPACH shall use.

**[1.28Mcps TDD - UpPCH]:**

If the *UpPCH Parameters* IE is included, the Node B shall reconfigure the position of the UpPCH.

For a multi-frequency cell:

- If the *UpPCH Position LCR* IE and the *UARFCN* IE are included, and the indicated frequency is primary frequency, the Node B shall reconfigure the position of the UpPCH on the primary frequency.

- If the *UpPCH Position LCR* IE and the *UARFCN* IE are included, and the indicated frequency is a secondary frequency, the Node B shall configure or reconfigure the position of the UpPCH on the secondary frequency.

- If the *UpPCH Position LCR* IE is not included, the Node B may delete the UpPCH on the secondary frequency indicated by the *UARFCN* IE.
[1.28Mcps TDD - PLCCH]:

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max PLCCH Power* IE, the Node B shall reconfigure the power that the PLCCH shall use.

General:

After a successful procedure, the channels will have adopted the new configuration in the Node B. The channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall remain in the same state as prior to the procedure. The Node B shall store the value of *Configuration Generation ID* IE and the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE message.

8.2.2.3 Unsuccessful Operation

If the Node B is not able to support all or part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message. The channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall remain in the same state as prior to the procedure. The *Cause* IE shall be set to an appropriate value. The value of *Configuration Generation ID* IE from the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.

Typical cause values are as follows:

**Radio Network Layer Cause:**
- Cell not available
- Power level not supported
- Node B Resources unavailable

**Transport Layer Cause:**
- Transport Resources Unavailable

**Miscellaneous Cause:**
- O&M Intervention
- Control processing overload
- HW failure

8.2.2.4 Abnormal Conditions

[1.28Mcps TDD - For a single frequency cell, if the *UpPCH Parameters* IE is included in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message but the *UpPCH Position LCR* IE is not present, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]
8.2.3 Common Transport Channel Deletion

8.2.3.1 General

This procedure is used for deleting common physical channels and common transport channels.

8.2.3.2 Successful Operation

The procedure is initiated with a COMMON TRANSPORT CHANNEL DELETION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Secondary CCPCH:

If the Common Physical Channel ID IE or Common Physical Channel ID 7.68Mcps IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a Secondary CCPCH, the Node B shall delete the indicated channel and the FACHs and PCH supported by that Secondary CCPCH. If there is a PCH that is deleted, the PICH associated with that PCH shall also be deleted. If an S-CCPCH is deleted, the MICH associated with that S-CCPCH shall also be deleted.

If the Common Physical Channel ID IE or Common Physical Channel ID 7.68Mcps IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a common transport channel that is sharing a common transport bearer with other one or several common transport channels, the Node B shall delete the indicated channel but keep the common transport bearer which is shared by the remaining common transport channel(s).

If the Common Physical Channel ID IE or Common Physical Channel ID 7.68Mcps IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a common transport channel which is using an IP multicast transport bearer, the Node B shall leave the IP multicast group if this channel is the last one in the group ([41] in case of IPv4, [42] in case of IPv6).

PRACH:

If the Common Physical Channel ID IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a PRACH, the Node B shall delete the indicated channel and the RACH supported by the PRACH. [FDD - The AICH associated with the RACH shall also be deleted.]
[1.28Mcps TDD PLCCH:

If the Common Physical Channel ID IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a PLCCH, the Node B shall delete the indicated channel.]

General:

[TDD - If the requested common physical channel is a part of a CCTrCH, all common transport channels and all common physical channels associated with this CCTrCH shall be deleted.]

After a successful procedure, the channels are deleted in the Node B. The channels in the COMMON TRANSPORT CHANNEL DELETION REQUEST message shall be set to state Not Existing ref. [6]. The Node B shall store the received value of the Configuration Generation ID IE and respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

8.2.3.3 Unsuccessful Operation

8.2.3.4 Abnormal Conditions

If the C-ID in the COMMON TRANSPORT CHANNEL DELETION REQUEST message is not existing in the Node B or the Common Physical Channel ID does not exist in the Cell, the Node B shall respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

8.2.4 Block Resource

8.2.4.1 General

The Node B initiates this procedure to request the CRNC to prohibit the usage of the specified logical resources. The logical resource that can be blocked is a cell.

8.2.4.2 Successful Operation

The procedure is initiated with a BLOCK RESOURCE REQUEST message sent from the Node B to the CRNC using the Node B Control Port.

Upon reception of the BLOCK RESOURCE REQUEST message, the CRNC shall prohibit the use of the indicated logical resources according to the Blocking Priority Indicator IE.

If the Blocking Priority Indicator IE in the BLOCK RESOURCE REQUEST message indicates "High Priority", the CRNC shall prohibit the use of the logical resources immediately.

If the Blocking Priority Indicator IE in the BLOCK RESOURCE REQUEST message indicates "Normal Priority", the CRNC shall prohibit the use of the logical resources if the resources are idle or immediately upon expiry of the shutdown timer specified by the Shutdown Timer IE in the BLOCK RESOURCE REQUEST message. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

Figure 6: Block Resource procedure, Successful Operation
If the *Blocking Priority Indicator* IE in the BLOCK RESOURCE REQUEST message indicates "Low Priority", the CRNC shall prohibit the use of the logical resources when the resources become idle. New traffic shall not be allowed to use the logical resources while the CRNC waits for the resources to become idle and once the resources are blocked.

If the resources are successfully blocked, the CRNC shall respond with a BLOCK RESOURCE RESPONSE message. Upon reception of the BLOCK RESOURCE RESPONSE message, the Node B may disable [3.84Mcps TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, if present the Secondary CPICH(s)], [1.28Mcps TDD - DwPCH] and the Primary CCPCH. The other logical resources in the cell shall be considered as blocked.

Reconfiguration of logical resources and change of System Information can be done, even when the logical resources are blocked.

**Interactions with the Unblock Resource procedure:**

If the UNBLOCK RESOURCE INDICATION message is received by the CRNC while a Block Resource procedure on the same logical resources is in progress, the CRNC shall cancel the Block Resource procedure and proceed with the Unblock Resource procedure.

If the BLOCK RESOURCE RESPONSE message or the BLOCK RESOURCE FAILURE message is received by the Node B after the Node B has initiated an Unblock Resource procedure on the same logical resources as the ongoing Block Resource procedure, the Node B shall ignore the response to the Block Resource procedure.

### 8.2.4.3 Unsuccessful Operation

![Figure 7: Block Resource procedure, Unsuccessful Operation](image)

The CRNC may reject the request to block the logical resources, in which case the logical resources will remain unaffected and the CRNC shall respond to the Node B with the BLOCK RESOURCE FAILURE message. Upon reception of the BLOCK RESOURCE FAILURE message, the Node B shall leave the logical resources in the state that they were in prior to the start of the Block Resource procedure.

Typical cause values are as follows:

**Miscellaneous Cause:**
- O&M Intervention
- Control processing overload
- HW failure

**Radio Network Layer Cause:**
- Priority transport channel established

### 8.2.4.4 Abnormal Conditions

-
8.2.5 Unblock Resource

8.2.5.1 General

The Node B initiates this procedure to indicate to the CRNC that logical resources are now unblocked.

The logical resource that can be unblocked is a cell.

8.2.5.2 Successful Operation

The procedure is initiated with an UNBLOCK RESOURCE INDICATION message sent from the Node B to the CRNC using the Node B Control Port. The Node B shall enable [3.84Mcps TDD - SCH], [FDD - the Primary SCH, the Secondary SCH, the Primary CPICH, the Secondary CPICH(s) (if present)], [1.28Mcps TDD - DwPCH] and the Primary CCPCH that had been disabled due to the preceding Block Resource procedure before sending the UNBLOCK RESOURCE INDICATION message. Upon reception of the UNBLOCK RESOURCE INDICATION message, the CRNC may permit the use of the logical resources.

All physical channels and transport channels associated to the cell that is unblocked are also unblocked.

8.2.5.3 Abnormal Conditions

- 

8.2.6 Audit Required

8.2.6.1 General

The Node B initiates this procedure to request the CRNC to perform an audit of the logical resources at the Node B. This procedure is used to indicate a possible misalignment of state or configuration information.

8.2.6.2 Successful Operation

The procedure is initiated with an AUDIT REQUIRED INDICATION message sent from the Node B to the CRNC using the Node B Control Port.
If the Node B cannot ensure alignment of the state or configuration information, it should initiate the Audit Required procedure.

Upon receipt of the AUDIT REQUIRED INDICATION message, the CRNC should initiate the Audit procedure.

8.2.6.3 Abnormal Conditions

8.2.7 Audit

8.2.7.1 General

This procedure is executed by the CRNC to perform an audit of the configuration and status of the logical resources in the Node B. A complete audit of a Node B is performed by one or more Audit procedures, together performing an audit sequence. The audit may cause the CRNC to re-synchronise the Node B to the status of logical resources known by the CRNC, that the Node B can support.

8.2.7.2 Successful Operation

The procedure is initiated with an AUDIT REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

If the Start Of Audit Sequence Indicator IE in the AUDIT REQUEST message is set to "start of audit sequence" a new audit sequence is started, any ongoing audit sequence shall be aborted and the Node B shall provide (part of) the audit information. If the Start Of Audit Sequence Indicator IE is set to "not start of audit sequence", the Node B shall provide (part of) the remaining audit information not already provided during this audit sequence.

If the information provided in the AUDIT RESPONSE message completes the audit sequence, the Node B shall set the End Of Audit Sequence Indicator IE in the AUDIT RESPONSE message to "End of Audit Sequence". If not all audit information has been provided yet as part of the ongoing audit sequence, the Node B shall set the End Of Audit Sequence Indicator IE in the AUDIT RESPONSE message to "Not End of Audit Sequence".

Information Provided In One Audit Sequence:

The Node B shall include one Local Cell Information IE for each local cell present in the Node B. The Node B shall include the Maximum DL Power Capability IE, the Minimum Spreading Factor IE and the Minimum DL Power Capability IE when any of those values are known by the Node B. The Node B shall include the HSDPA Capability IE set to "HSDPA Capable" and may include HS-DSDCH MAC-d PDU Size Capability IE for every HSDPA-capable Local Cell. The Node B shall include the E-DCH Capability IE set to "E-DCH Capable" and may include E-DCH MAC-d PDU Size Capability IE for every E-DCH-capable Local Cell. The Node B shall include the MBMS Capability IE set to "MBMS Capable" for every MBMS-capable Local Cell. [FDD - The Node B shall include the F-DPCH Capability IE set to "F-DPCH Capable" for every F-DPCH-capable Local Cell.] [FDD - The Node B shall include the Continuous Packet Connectivity DTX-DRX Capability IE set to "Continuous Packet Connectivity DTX-DRX Capable" when Continuous Packet Connectivity DTX-DRX is supported for every Local Cell that is both HSDPA-capable and E-DCH-capable.] [FDD - The Node B shall include the Continuous Packet Connectivity HS-SCCH less Capability IE set to "Continuous Packet Connectivity HS-SCCH less Capable" when Continuous Packet Connectivity HS-SCCH less is supported for every Local Cell that is both HSDPA-capable and E-DCH-capable.] [FDD - The Node B shall include the
MIMO Capability IE set to "MIMO Capable" for every MIMO-capable Local Cell.] [FDD - The Node B shall include the SixtyfourQAM DL Capability IE set to "SixtyfourQAM DL Capable" for every SixtyfourQAM DL-capable Local Cell.] [FDD - The Node B shall include the Enhanced FACH Capability IE set to "Enhanced FACH Capable" for every Enhanced FACH-capable Local Cell.] [FDD - The Node B shall include the TX sixt sixteen[['6']8QAM UL Capability IE set to "SixteenQAM UL Capable" for every SixteenQAM UL-capable Local Cell.] [1.28Mcps TDD - The Node B shall include the MBSFN Only Mode Capability IE set to "MBSFN Only Mode Capable" for every MBSFN Only Mode-capable Local Cell.] [FDD - The Node B shall include the F-DPCH Slot Format Capability IE set to "F-DPCH Slot Format Capable" for every F-DPCH Slot Format-capable Local Cell.] [1.28Mcps TDD - The Node B shall include the SixtyfourQAM DL Capability IE set to "SixtyfourQAM DL Capable" for every SixtyfourQAM DL-capable Local Cell.] [FDD - The Node B shall include the Common E-DCH Capability IE set to "Common E-DCH Capable" for every Common E-DCH-capable Local Cell.] The Node B shall include the E-DPCCH Power Boosting Capability IE set to "E-DPCCH Power Boosting Capable " for every E-DPCCH Power Boosting-capable Local Cell. [FDD - The Node B shall include the SixtyfourQAM DL and MIMO Combined Capability IE set to "SixtyfourQAM DL and MIMO Combined Capable" when Combined SixtyfourQAM DL and MIMO is supported for every Local Cell that is both SixtyfourQAM DL-capable and MIMO-capable.] [1.28Mcps TDD - The Node B shall include the Enhanced FACH Capability IE set to "Enhanced FACH Capable" for every Enhanced FACH-capable Local Cell.] [1.28Mcps TDD - The Node B shall include the Enhanced PCH Capability IE set to "Enhanced PCH Capable" for every Enhanced PCH-capable Local Cell.] [1.28Mcps TDD - The Node B shall include the Enhanced UE DRX Capability LCR IE set to "Enhanced UE DRX Capable" for every Enhanced UE DRX-capable Local Cell.] [FDD - The Node B shall include the Multi Cell Capability Info IE and set the Multi Cell Capability IE value to "Multi Cell Capable" for every Multi Cell operation capable Local Cell, and if the cell can be the serving HS-DSCCH then the possible cells to serve multiple adjacent carrier operation[22] (same sector) that can act as secondary serving HS-DSCCH shall be listed in the Possible Secondary Serving Cell List IE.] [1.28Mcps TDD - The Node B shall include the Semi-Persistent scheduling Capability LCR IE set to "Semi-Persistent scheduling Capable" for every semi-persistent scheduling Capable Local Cell.] [1.28Mcps TDD - The Node B shall include the Continuous Packet Connectivity DRX Capability LCR IE set to "Continuous Packet Connectivity DRX Capable" for every Continuous Packet Connectivity DRX Capable Local Cell.] [1.28Mcps TDD - The Node B shall include the MIMO Capability IE set to "MIMO Capable" for every MIMO-capable Local Cell.] [1.28Mcps TDD - The Node B shall include the SixtyfourQAM DL and MIMO Combined Capability IE set to "SixtyfourQAM DL and MIMO Combined Capable" when Combined SixtyfourQAM DL and MIMO is supported for every Local Cell that is both SixtyfourQAM DL-capable and MIMO-capable.] [FDD - The Node B shall include the Enhanced UE DRX Capability LCR IE set to "Enhanced UE DRX Capable" for every Enhanced UE DRX-capable Local Cell.] [1.28Mcps TDD - The Node B shall include the Cell Portion Capability LCR IE set to " Cell Portion Capable" for every Cell Portion Capable Local Cell.] [FDD - The Node B shall include the MIMO Power Offset For S-CPICH Capability IE set to "S-CPICH Power Offset Capable " for every MIMO-capable Local Cell able to transmit S-CPICH at a power offset from P-CPICH.] [FDD - The Node B shall include the TX Diversity on DL Control Channels by MIMO UE Capability IE set to "DL Control Channel Tx Diversity for MIMO UE with non-diverse P-CPICH Capable" for every MIMO-capable Local Cell able to support DL control channels in transmit diversity for MIMO UEs when when MIMO is active and P-CPICH is not transmitted in diversity mode [7].] [FDD - The Node B shall include the Single Stream MIMO Capability IE set to "Single Stream MIMO Capable" for every Single Stream MIMO-capable Local Cell.] [FDD - The Node B shall include the Dual Band Capability Info IE and set the Dual Band Capability IE value to "Dual Band Capable" for every Dual Band operation capable Local Cell, and if the cell can be the serving HS-DSCCH then the possible cells to serve multiple dual band carrier operation[22] (same sector) that can act as secondary serving HS-DSCCH shall be listed in the Possible Secondary Serving Cell List IE.] [FDD - The Node B shall include the Cell Capability Container IE if the Local Cell is capable of at least one feature listed in 9.2.2.129 and indicate the capabilities listed in 9.2.2.129 for the local cell.][1.28Mcps TDD - The Node B shall include the TS0 Capability LCR IE set to "TS0 Capable" for every TS0 Capable Local Cell.][FDD - For every MIMO-capable and/or Single Stream MIMO Capable Local Cell the Node B may include the Preceding Weight Set Restriction IE set to "Preferred", if configuration of the preceding weight set restriction defined in [18] is preferred.] [1.28Mcps TDD - The Node B shall include the Adaptive Special Burst Power Capability LCR IE set to "Adaptive Special Burst Power Capable" for every Adaptive Special Burst Power Capable Local Cell.] [TDD - The Node B shall include the Reference Clock Availability IE to indicate the availability of a Reference clock connected to the Local Cell.]

If the Node B internal resources are pooled for a group of cells, the Node B shall include one Local Cell Group Information IE containing the Node B internal resource capacity and the consumption laws per group of cells [FDD -, including also the E-DCH Capacity Consumption Law IE, if E-DCH is supported] [TDD -, including also the E-DCH TDD Capacity Consumption Law IE, if E-DCH is supported]. If the UL Capacity Credit IE is not present in the Local Cell Group Information IE, then the internal resource capabilities of the Node B for the Local Cell Group are modelled as shared resources between Uplink and Downlink.
If the Node B internal power resources are pooled for a group of Local Cells, the Node B shall include one **Power Local Cell Group Information** IE containing the Maximum DL Power Capability for each Power Local Cell Group for which this value is known by the Node B. In this case, the Node B shall also include the **Maximum DL Power Capability** IE in the **Local Cell Information** IE for all the Local Cells belonging to a Power Local Cell Group reported in the **Power Local Cell Group Information** IE. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

The Node B shall include, for each local cell present in the Node B, the Node B internal resource capability and consumption laws within the **Local Cell Information** IE [FDD - , including also the **E-DCH Capacity Consumption Law**, if E-DCH is supported] [TDD - , including also the **E-DCH TDD Capacity Consumption Law** IE, if E-DCH is supported]. If the **UL Capacity Credit** IE is not present in the **Local Cell Information** IE, then the internal resource capabilities of the local cell are modelled as shared resources between Uplink and Downlink. If the Local Cell utilises Node B internal resource capabilities that are pooled for several Local Cell(s), the **Local Cell Group ID** IE shall contain the identity of the used Local Cell Group. If the Local Cell utilises Node B internal power resources that are pooled for several Local Cells, the **Power Local Cell Group ID** IE shall contain the identity of the concerned Power Local Cell Group.

The Node B shall include one **Cell Information** IE for each cell in the Node B and information about all common transport channels and all common physical channels for each cell. If a **Configuration Generation ID** IE for a cell can not be trusted, the Node B shall set this **Configuration Generation ID** IE = "0". The Node B shall include the **HS-DSCH Resources Information** IE for every Cell which has been configured with HS-DSCH resources. [FDD - The Node B shall include the **E-DCH Resources Information** IE for every Cell which has been configured with E-DCH resources.] [TDD - The Node B shall include the **E-DCH Resources Information** IE and the [3.84Mcps TDD - **E-RUCCH Information** IE] [7.68Mcps TDD - **E-RUCCH Information 7.68Mcps** IE] for every cell which has been configured with E-DCH resources.]

[1.28Mcps TDD - The Node B may include the **UpPCH Information LCR** IE for each frequency on which the UpPCH channel is not configured in the timeslot of UpPTS.]

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the **UARFCN** IE in the **HS-DSCH Resources Information** IE to report the status of the HS-DSCH resources on the indicated frequency, the Node B may also not include any **UARFCN** IE in the **HS-DSCH Resources Information** IE to report the status of the HS-DSCH resources for the whole cell.]

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the **UARFCN** IE in the **E-DCH Resources Information** IE to report the status of the E-DCH resources on the indicated frequency, the Node B may also not include any **UARFCN** IE in the **E-DCH Resources Information** IE to report the status of the E-DCH resources for the whole cell.]

The Node B shall also include one **Communication Control Port Information** IE for each Communication Control Port in the Node B.

[1.28Mcps TDD - For a multi-frequency cell, the Node B should report the status of the resources used for each frequency. A reporting method can be found in Annex E.]

### 8.2.7.3 Unsuccessful Operation

![Figure 10A: Audit procedure, Unsuccessful Operation](image-url)
If the Node B cannot perform an audit of the configuration and status of the logical resources, it shall send a AUDIT FAILURE message with the Cause IE set to an appropriate value.

### 8.2.7.4 Abnormal Conditions

If the Node B receives the AUDIT REQUEST message with the Start Of Audit Sequence Indicator IE set to "not start of audit sequence" and there is no ongoing audit sequence, the Node B shall send the AUDIT FAILURE message with the appropriate cause value.

### 8.2.8 Common Measurement Initiation

#### 8.2.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on common resources in a Node B.

#### 8.2.8.2 Successful Operation

![Figure 11: Common Measurement Initiation procedure, Successful Operation](image)

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

- **[TDD - If the [3.84Mcps TDD and 7.68Mcps TDD - Time Slot IE] [1.28Mcps TDD - Time Slot LCR IE] is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested time slot individually.]**

- **[1.28Mcps TDD - If Time Slot LCR IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to all the available time slots in the frequency.]**

- **[1.28Mcps TDD - If the **Common Measurement Type** IE is not set to "HS-DSCH Provided Bit Rate" and **UARFCN** IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to all the frequencies in the cell.] [1.28Mcps TDD - If the **Common Measurement Type** IE is not set to "HS-DSCH Provided Bit Rate" and neither **UARFCN** IE nor **Time Slot LCR** IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to all time slots in all frequencies in which the measurements are applicable.]**

- **[1.28Mcps TDD - If **Additional Time Slot LCR** IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested additional time slots indicated in the **Additional Time Slot LCR** IE.]**

- **[1.28Mcps TDD - If the **UpPCH Position LCR** IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, and the **Common Measurement Type** IE is set to "UpPCH interference", the measurement request shall apply to the requested UpPCH position individually.]**

If the **Common Measurement Type** IE is not set to "SFN-SFN Observed Time Difference" and the **SFN Reporting Indicator** IE is set to "FN Reporting Required", the **SFN** IE shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the Report Characteristics IE is set to "On Demand". The reported SFN shall be the SFN at the time when the measurement value...
was reported by the layer 3 filter, referred to as point C in the measurement model [25]. If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference", the SFN Reporting Indicator IE shall be ignored.

[FDD - If the Common Measurement Type IE is set to "Received Scheduled E-DCH Power Share" and the RTWP* Reporting Indicator IE is set to "RTWP* Reporting Required", the RTWP* Value IE shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the Report Characteristics IE is set to "On Demand". This is the received total wideband power (RTWP) determined for the same time period during which RSEPS is determined.]

[FDD - If the Common Measurement Type IE is set to "Received Scheduled E-DCH Power Share for Cell Portion" and the RTWP*for Cell Portion Reporting Indicator IE is set to "RTWP* Reporting Required", the RTWP* Value IE shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the Report Characteristics IE is set to "On Demand".]

[1.28Mcps TDD - For a multi-frequency cell, if Common Measurement Type IE is set to "HS-DSCH Provided Bit Rate", and the UARFCN IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the indicated frequency, if Common Measurement Type IE is set to "HS-DSCH Provided Bit Rate", and the UARFCN IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the whole cell.]

Common measurement type:

If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference", then the Node B shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by C-ID IE and the neighbouring cells identified by the UTRAN Cell Identifier(UC-Id) IE in the Neighbouring Cell Measurement Information IE.

If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning", then the Node B shall initiate the UTRAN GANSS Timing of Cell Frames measurements using the GNSS system time identified by GANSS Time ID IE included in the COMMON MEASUREMENT INITIATION REQUEST message. If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning" and the GANSS Time ID IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall assume that the corresponding GANSS time is "Galileo" system time.

[FDD and 1.28Mcps TDD - If the Common Measurement Type IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion", [FDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"] [1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH, or E-HICH transmission for Cell Portion"], "HS-DSCH Required Power for Cell Portion", "HS-DSCH Provided Bit Rate for Cell Portion"[1.28Mcps TDD - "E-DCH Provided Bit Rate for Cell Portion", "UpPCH interference for Cell Portion"] or [FDD - "Received Scheduled E-DCH Power Share for Cell Portion"] [1.28Mcps TDD - "UL Timeslot ISCP for Cell Portion"], the Node B shall initiate the corresponding measurements for all the cell portions which are configured under the cell indicated by C-ID IE in the COMMON MEASUREMENT INITIATION REQUEST message.]

Report characteristics:

The Report Characteristics IE indicates how the reporting of the measurement shall be performed. See also Annex B.

If the Report Characteristics IE is set to "On Demand" and if the SFN IE is not provided, the Node B shall return the result of the requested measurement immediately. If the SFN IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the Report Characteristics IE is set to "Periodic", the Node B shall periodically initiate a Common Measurement Reporting procedure for this measurement, with the requested report frequency. If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference", all the available measurement results shall be reported in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE in the SFN-SFN Measurement Value Information IE and the Node B shall indicate in the Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE all the remaining neighbouring cells with no measurement result available in the Common Measurement Reporting procedure. If the SFN IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].
If the **Report Characteristics** IE is set to "Event A", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the **Measurement Hysteresis Time** IE is not included, the Node B shall use the value zero for the hysteresis time. If the **Common Measurement Type** IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. [FDD and 1.28Mcps TDD - If the **Common Measurement Type** IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or [FDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"] [1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"] or "HS-DSCH Required Power for Cell Portion" [1.28Mcps TDD - or "UpPCH interference for Cell Portion"] or [FDD - "Received Scheduled E-DCH Power Share for Cell Portion"] [1.28Mcps TDD - "UL Timeslot ISCP for Cell Portion"], the measurement entity to be considered is the corresponding measurement for each cell portion.

If the **Report Characteristics** IE is set to "Event B", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the **Measurement Hysteresis Time** IE is not included, the Node B shall use the value zero for the hysteresis time. If the **Common Measurement Type** IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. [FDD and 1.28Mcps TDD - If the **Common Measurement Type** IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or [FDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"] [1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"] or "HS-DSCH Required Power for Cell Portion" [1.28Mcps TDD - or "UpPCH interference for Cell Portion"] or [FDD - "Received Scheduled E-DCH Power Share for Cell Portion"] [1.28Mcps TDD - "UL Timeslot ISCP for Cell Portion"], the measurement entity to be considered is the corresponding measurement for each cell portion.

If the **Report Characteristics** IE is set to "Event C", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the **Measurement Change Time** IE has elapsed since the previous event reporting. [FDD and 1.28Mcps TDD - If the **Common Measurement Type** IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" [1.28Mcps TDD - or "UpPCH interference for Cell Portion"] or [FDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"] [1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"] or [FDD - "Received Scheduled E-DCH Power Share for Cell Portion"] [1.28Mcps TDD - "UL Timeslot ISCP for Cell Portion"], the measurement entity to be considered is the corresponding measurement for each cell portion.

If the **Report Characteristics** IE is set to "Event D", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the **Measurement Change Time** IE has elapsed since the previous event reporting. [FDD and 1.28Mcps TDD - If the **Common Measurement Type** IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" [1.28Mcps TDD - or "UpPCH interference for Cell Portion"] or [FDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion"] [1.28Mcps TDD - "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH or E-HICH transmission for Cell Portion"] or [FDD - "Received Scheduled E-DCH Power Share for Cell Portion"] [1.28Mcps TDD - "UL Timeslot ISCP for Cell Portion"], the measurement entity to be considered is the corresponding measurement for each cell portion.

If the **Report Characteristics** IE is set to "Event E", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the **Report Periodicity** IE is provided, the Node B shall initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the **Measurement Threshold 2** IE is not present, the Node B shall use the value of the **Measurement Threshold 1** IE instead. If the **Measurement Hysteresis Time** IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B. If the **Common Measurement Type** IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. [FDD and 1.28Mcps TDD - If the **Common Measurement Type** IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" [1.28Mcps TDD - or "UpPCH interference for Cell Portion"] or [FDD - "Transmitted carrier power of all codes not used for HS-PDSCH,
If the \textbf{Report Characteristics} IE is set to "Event F", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the \textbf{Report Periodicity} IE is provided the Node B shall also initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the \textbf{Measurement Threshold 2} IE is not present, the Node B shall use the value of the \textbf{Measurement Threshold 1} IE instead. If the \textbf{Measurement Hysteresis Time} IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B. If the \textbf{Common Measurement Type} IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. If the \textbf{Common Measurement Type} IE is set to "Received Total Wide Band Power for Cell Portion" or "Transmitted Carrier Power for Cell Portion" or "UpPCH interference for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.

If the \textbf{Report Characteristics} IE is set to "On Modification" and if the \textbf{SFN} IE is not provided, the Node B shall report the result of the requested measurement immediately. If the \textbf{SFN} IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25]. Then, the Node B shall initiate the Common Measurement Reporting procedure in accordance to the following conditions:

1. If the \textbf{Common Measurement Type} IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning":

- If the TUTRAN-GPS Change Limit IE is included in the TUTRAN-GPS Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of TUTRAN-GPS value (Fn). The Node B shall initiate the Common Measurement Reporting procedure and set \( n = 0 \) when the absolute value of \( Fn \) rises above the threshold indicated by the TUTRAN-GPS Change Limit IE. The change of TUTRAN-GPS value (Fn) is calculated according to the following:

\[
F_n = \begin{cases} 
0 & \text{for } n = 0 \\
(M_n - M_{n,1}) \mod 37158912000000 - ((SFN_n - SFN_{n,1}) \mod 4096) \times 10^3 \times 3.84 \times 10^3 \times 16 + F_{n,1} & \text{for } n > 0
\end{cases}
\]

\( F_n \) is the change of the \( T_{\text{TUTRAN-GPS}} \) value expressed in unit [1/16 chip] when \( n \) measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

\( M_n \) is the latest measurement result received after point C in the measurement model [25], measured at SFN\(_n\).

\( M_{n,1} \) is the previous measurement result received after point C in the measurement model [25], measured at SFN\(_{n,1}\).

\( M_1 \) is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

\( M_0 \) is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

- If the Predicted TUTRAN-GPS Deviation Limit IE is included in the TUTRAN-GPS Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the \( P_n \) and \( F_n \) The Node B shall initiate the Common Measurement Reporting procedure when the conditions for Report A are met and the \textbf{Report Periodicity} IE is provided the Node B shall also initiate the Common Measurement Reporting procedure periodically.
Reporting procedure and set \( n \) equal to zero when \( F_n \) rises above the threshold indicated by the Predicted TUTRAN-GPS Deviation Limit IE. The \( P_n \) and \( F_n \) are calculated according to the following:

\[
P_n = \begin{cases} b & \text{for } n=0 \\ \frac{(a/16) \times \left( (SFN_n - SFN_{n-1}) \mod 4096 \right) + \left( (SFN_n - SFN_{n-1}) \mod 4096 \right) \times 3.84 \times 10^3 \times 16 + P_{n-1}}{100} \mod 37158912000000 & \text{for } n>0 \end{cases}
\]

\[
F_n = \min((M_n - P_n) \mod 37158912000000, (P_n - M_n) \mod 37158912000000) & \text{for } n>0
\]

\( P_n \) is the predicted TUTRAN-GPS value when \( n \) measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

\( a \) is the last reported TUTRAN-GPS Drift Rate value.

\( b \) is the last reported TUTRAN-GPS value.

\( F_n \) is the deviation of the last measurement result from the predicted TUTRAN-GPS value \( (P_n) \) when \( n \) measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

\( M_n \) is the latest measurement result received after point C in the measurement model [25], measured at SFN\(_n\).

\( M_1 \) is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

The TUTRAN-GPS Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [25].

2. If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference":

- If the SFN-SFN Change Limit IE is included in the SFN-SFN Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of SFN-SFN value \( (F_n) \). The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set \( n \) equal to zero when \( F_n \) rises above the threshold indicated by the SFN-SFN Change Limit IE. The change of the SFN-SFN value is calculated according to the following:

\[
F_n = \begin{cases} 0 & \text{for } n=0 \\ [FDD - F_n = (M_n - a) \mod 614400 & \text{for } n>0] \\ [TDD - F_n = (M_n - a) \mod 40960 & \text{for } n>0] \end{cases}
\]

\( F_n \) is the change of the SFN-SFN value expressed in unit [1/16 chip] when \( n \) measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

\( a \) is the last reported SFN-SFN.

\( M_n \) is the latest measurement result received after point C in the measurement model [25], measured at SFN\(_n\).

\( M_1 \) is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

- If the Predicted SFN-SFN Deviation Limit IE is included in the SFN-SFN Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the \( P_n \) and \( F_n \). The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set \( n \) equal to zero when \( F_n \) rises above the threshold indicated by the Predicted SFN-SFN Deviation Limit IE. The \( P_n \) and \( F_n \) are calculated according to the following:

\[
P_n = \begin{cases} b & \text{for } n=0 \\ [FDD - P_n = ((a/16) \times \left( (SFN_n - SFN_{n-1}) \mod 4096 \right) + P_{n-1}) \mod 614400 & \text{for } n>0] \end{cases}
\]

\[
[FDD - F_n = \min((M_n - P_n) \mod 614400, (P_n - M_n) \mod 614400) & \text{for } n>0]
\]
[TDD - $P_n = \left(\frac{a}{16}\right) \times \left(15 \times (SFN_{n-1} - SFN_n) \mod 4096 + (TS_n - TS_{n-1})\right) / 1500 + P_{n-1} \mod 40960$ for $n>0$]

[TDD - $F_n = \min((M_n - P_n) \mod 40960, (P_n - M_n) \mod 40960)$ for $n>0$]

$P_n$ is the predicted SFN-SFN value when $n$ measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$a$ is the last reported SFN-SFN Drift Rate value.

$b$ is the last reported SFN-SFN value.

$abs$ denotes the absolute value.

$F_n$ is the deviation of the last measurement result from the predicted SFN-SFN value ($P_n$) when $n$ measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$M_n$ is the latest measurement result received after point C in the measurement model [25], measured at [TDD - the Time Slot $TS_n$ of] the Frame $SFN_n$.

$M_1$ is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

$\mathrm{GANSS}$ measurement model is the timing between cell j and GANSS Time Of Day. $T_{\mathrm{UE-GANSS}}$ is defined as the time of occurrence of a specified UTRAN event according to GANSS time. The specified UTRAN event is the beginning of a particular frame (identified through its SFN) in the first detected path (in time) of the cell j CPICH, where cell j is a cell chosen by the UE. The reference point for $T_{\mathrm{UE-GANSS}}$ shall be the antenna connector of the UE.

3. If the Common Measurement Type IE is set to “UTRAN GANSS Timing of Cell Frames for UE Positioning”:

- If the TUTRAN-GANSS Change Limit IE is included in the TUTRAN-GANSS Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of TUTRAN-GANSS value ($F_n$). The Node B shall initiate the Common Measurement Reporting procedure and set $n$ equal to zero when the absolute value of $F_n$ rises above the threshold indicated by the TUTRAN-GANSS Change Limit IE. The change of TUTRAN-GANSS value ($F_n$) is calculated according to the following:

$F_n=0$ for $n=0$

$F_n = (GAM_n - GAM_{n-1}) \mod 5308416000000 - ((SFN_n - SFN_{n-1}) \mod 4096) \times 10^3 + F_{n-1}$

for $n>0$

$F_n$ is the change of the $T_{\mathrm{UTRAN-GANSS}}$ value expressed in unit [1/16 chip] when $n$ measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$GAM_n$ is the latest GANSS measurement result received after point C in the GANSS measurement model, measured at $SFN_n$.

$GAM_{n-1}$ is the previous GANSS measurement result received after point C in the GANSS measurement model, measured at $SFN_{n-1}$.

$GAM_1$ is the first GANSS measurement result received after point C in the GANSS measurement model, after the first Common Measurement Reporting at initiation or after the last event was triggered.

$GAM_0$ is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

- If the Predicted TUTRAN-GANSS Deviation Limit IE is included in the TUTRAN-GANSS Measurement Threshold Information IE, the Node B shall each time a new measurement result is received after point C in
the measurement model [25], update the Pn and Fn. The Node B shall initiate the Common Measurement Reporting procedure and set n equal to zero when Fn rises above the threshold indicated by the Predicted TUTRAN-GANSS Deviation Limit IE. The Pn and Fn are calculated according to the following:

\[ P_n = b \quad \text{for} \quad n=0 \]

\[ P_n = \left( \frac{a}{16} \right) \times \left( \frac{(SFN_n - SFN_{n-1}) \mod 4096}{100} + (SFN_n - SFN_{n-1}) \mod 4096 \times 10^3 \times 3.84 \times 10^3 + P_{n-1} \right) \mod 5308416000000 \quad \text{for} \quad n>0 \]

\[ F_n = \min((GAM_n - P_n) \mod 5308416000000, (P_n - GAM_n) \mod 5308416000000) \quad \text{for} \quad n>0 \]

Pn is the predicted TUTRAN-GANSS value when n measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported TUTRAN-GANSS Drift Rate value.

b is the last reported TUTRAN-GANSS value.

Fn is the deviation of the last measurement result from the predicted TUTRAN-GANSS value (Pn) when n measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

GAMn is the latest GANSS measurement result received after point C in the GANSS measurement model, measured at SFNn.

GAM1 is the first GANSS measurement result received after point C in the GANSS measurement model, after the first Common Measurement Reporting at initiation or after the last event was triggered.

The TUTRAN-GANSS Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [25]. If the Report Characteristics IE is not set to "On Demand", the Node B is required to perform reporting for a common measurement object, in accordance with the conditions provided in the COMMON MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no common measurement object(s) for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate the Common Measurement Reporting procedure immediately, and then continue with the measurements as specified in the COMMON MEASUREMENT INITIATION REQUEST message.

**Higher layer filtering:**

The Measurement Filter Coefficient IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

\[ F_n = (1 - a) \times F_{n-1} + a \times M_n \]

The variables in the formula are defined as follows:

Fn is the updated filtered measurement result

F_{n-1} is the old filtered measurement result

Mn is the latest received measurement result from physical layer measurements, the unit used for Mn is the same unit as the reported unit in the COMMON MEASUREMENT INITIATION RESPONSE, COMMON MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for Fn)

a = \frac{1}{2^k}, where k is the parameter received in the Measurement Filter Coefficient IE. If the Measurement Filter Coefficient IE is not present, a shall be set to 1 (no filtering)

In order to initialise the averaging filter, F0 is set to M1 when the first measurement result from the physical layer measurement is received.

**Common measurement accuracy:**
If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", then the Node B shall use the UTRAN GPS Timing Measurement Accuracy Class IE included in the Common Measurement Accuracy IE according to the following:

- If the UTRAN GPS Timing Measurement Accuracy Class IE indicates "Class A", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes A, B and C.
- If the UTRAN GPS Timing Measurement Accuracy Class IE indicates "Class B", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes B and C.
- If the UTRAN GPS Timing Measurement Accuracy Class IE indicates "Class C", then the Node B shall perform the measurements with the accuracy according to class C.

If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning", then the Node B shall use the TUTRAN-GANSS Measurement Accuracy Class IE included in the Common Measurement Accuracy IE according to the following:

- If the TUTRAN-GANSS Measurement Accuracy Class IE indicates "Class A", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes A, B and C.
- If the TUTRAN-GANSS Measurement Accuracy Class IE indicates "Class B", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes B and C.
- If the TUTRAN-GANSS Measurement Accuracy Class IE indicates "Class C", then the Node B shall perform the measurements with the accuracy according to class C.

Measurement Recovery Behavior:

If the Measurement Recovery Behavior IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall, if Measurement Recovery Behavior is supported, include the Measurement Recovery Support Indicator IE in the COMMON MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.2.9.2.

[FDD - Noise Floor Reporting:]

[FDD - If the Common Measurement Type IE is set to "Received Total Wide Band Power" and if the Reference Received Total Wide Band Power Reporting IE is included in the same COMMON MEASUREMENT INITIATION REQUEST message, the Node B may include the Reference Received Total Wide Band Power IE in the message used to report the common measurement.]

[FDD - If the Reference Received Total Wide Band Power Reporting IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall if supported, include the Reference Received Total Wide Band Power Support Indicator IE or the Reference Received Total Wide Band Power IE in the COMMON MEASUREMENT INITIATION RESPONSE.]

Response message:

If the Node B was able to initiate the measurement requested by the CRNC, it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent over the Node B Control Port. The message shall include the same Measurement ID that was used in the measurement request. Only in the case where the Report Characteristics IE is set to "On Demand" or "On Modification", the COMMON MEASUREMENT INITIATION RESPONSE message shall include the measurement result and also the Common Measurement Achieved Accuracy IE if the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" or "UTRAN GANSS Timing of Cell Frames for UE Positioning".

[1.28Mcps TDD – If Time Slot LCR IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement response shall apply to all the available time slots in the frequency.]

[1.28Mcps TDD - If the Common Measurement Type IE is not set to "HS-DSCH Provided Bit Rate" and UARFCN IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement response shall apply to all the frequencies in the cell.]

[1.28Mcps TDD - If the Common Measurement Type IE is not set to "HS-DSCH Provided Bit Rate" and neither UARFCN IE nor Time Slot LCR IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement response shall apply to all available time slots in all frequencies.]
[1.28Mcps TDD - If Additional Time Slot LCR IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of the additional time slot (s) should be included in the COMMON MEASUREMENT INITIATION RESPONSE message.]

If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference" and the Report Characteristics IE is set to "On Demand" or "On Modification", all the available measurement results shall be reported in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE in the SFN-SFN Measurement Value Information IE and the Node B shall indicate in the Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE all the remaining neighbouring cells with no measurement result available in the COMMON MEASUREMENT INITIATION RESPONSE message. For all available measurement results, the Node B shall include in the Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE the SFN-SFN Quality IE and the SFN-SFN Drift Rate Quality IE, if available.

If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the Report Characteristics IE is set to "On Demand" or "On Modification", the Node B shall include in the TUTRAN-GPS Measurement Value Information IE the TUTRAN-GPS Quality IE and the TUTRAN-GPS Drift Rate Quality IE, if available.

If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning" and the Report Characteristics IE is set to "On Demand" or "On Modification", the Node B shall include in the TUTRAN-GANSS Measurement Value Information IE, the TUTRAN-GANSS Quality IE and the TUTRAN-GANSS Drift Rate Quality IE, if available.

8.2.8.3 Unsuccessful Operation

![Diagram of Common Measurement Initiation procedure, Unsuccessful Operation](image)

If the requested measurement cannot be initiated [1.28Mcps TDD-in any time slot], the Node B shall send a COMMON MEASUREMENT INITIATION FAILURE message over the Node B Control Port. The message shall include the same Measurement ID that was used in the COMMON MEASUREMENT INITIATION REQUEST message and the Cause IE set to an appropriate value.

Typical cause values are as follows:

**Radio Network Layer Cause:**
- Measurement not supported for the object.
- Measurement Temporarily not Available

8.2.8.4 Abnormal Conditions

The allowed combinations of the Common Measurement Type received in the Common Measurement Type IE and the Common Measurement Object Type received in the COMMON MEASUREMENT INITIATION REQUEST message are shown in the table below. For not allowed combinations, the Node B shall regard the Common Measurement Initiation procedure as failed.
Table 3a: Allowed Common Measurement Type and Common Measurement Object Type combinations

<table>
<thead>
<tr>
<th>Common Measurement Type</th>
<th>Common Measurement Object Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cell</td>
</tr>
<tr>
<td>Received Total Wide Band Power</td>
<td>X</td>
</tr>
<tr>
<td>Transmitted Carrier Power</td>
<td>X</td>
</tr>
<tr>
<td>Acknowledged PRACH Preambles</td>
<td></td>
</tr>
<tr>
<td>E-DCH RACH Report</td>
<td></td>
</tr>
<tr>
<td>UL Timeslot ISCP</td>
<td>X</td>
</tr>
<tr>
<td>UTRAN GPS Timing of Cell Frames for UE Positioning</td>
<td></td>
</tr>
<tr>
<td>SFN-SFN Observed Time Difference</td>
<td>X</td>
</tr>
<tr>
<td>[TDD - Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission]</td>
<td>X</td>
</tr>
<tr>
<td>[FDD - Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission]</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Required Power</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Provided Bit Rate</td>
<td>X</td>
</tr>
<tr>
<td>Received Total Wide Band Power for Cell Portion</td>
<td>FDD and 1.28Mcps</td>
</tr>
<tr>
<td>Transmitted Carrier Power for Cell Portion</td>
<td>FDD and 1.28Mcps</td>
</tr>
<tr>
<td>Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion</td>
<td>FDD only</td>
</tr>
<tr>
<td>UpPCH interference</td>
<td>1.28 Mcps</td>
</tr>
<tr>
<td>DL Transmission Branch Load</td>
<td>FDD only</td>
</tr>
<tr>
<td>HS-DSCH Required Power for Cell Portion</td>
<td>FDD and 1.28Mcps</td>
</tr>
<tr>
<td>HS-DSCH Provided Bit Rate for Cell Portion</td>
<td>FDD and 1.28Mcps</td>
</tr>
<tr>
<td>E-DCH Provided Bit Rate</td>
<td>X</td>
</tr>
<tr>
<td>E-DCH Non-serving Relative Grant Down Commands</td>
<td>FDD only</td>
</tr>
<tr>
<td>Received Scheduled E-DCH Power Share</td>
<td>FDD only</td>
</tr>
<tr>
<td>Received Scheduled E-DCH Power Share for Cell Portion</td>
<td>FDD only</td>
</tr>
<tr>
<td>UTRAN GANSS Timing of Cell Frames for UE Positioning</td>
<td>X</td>
</tr>
<tr>
<td>UL Timeslot ISCP for Cell Portion</td>
<td>1.28Mcps</td>
</tr>
<tr>
<td>Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, or E-HICH transmission for Cell Portion</td>
<td>1.28Mcps</td>
</tr>
<tr>
<td>E-DCH Provided Bit Rate for Cell Portion</td>
<td>1.28Mcps</td>
</tr>
<tr>
<td>UpPCH interference for Cell Portion</td>
<td>1.28Mcps</td>
</tr>
</tbody>
</table>

[TDD - If the Common Measurement Type requires the Time Slot Information but the [3.84Mcps TDD and 7.68Mcps TDD - Time Slot IE] [1.28Mcps TDD - Time Slot LCR IE] is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.]
[1.28Mcps TDD - For a multi-frequency cell, if the Additional Time Slot LCR IE is present in the COMMON MEASUREMENT INITIATION REQUEST message, only on-demand and period measurement could be used, otherwise, the Node B shall reject the procedure by sending a COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.]

If the COMMON MEASUREMENT INITIATION REQUEST message contains the SFN-SFN Measurement Threshold Information IE (in the Measurement Threshold IE contained in the Report Characteristics IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the $T_{\text{UTRAN-GPS}}$ Measurement Threshold Information IE (in the Measurement Threshold IE contained in the Report Characteristics IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the Common Measurement Type IE is set to "SFN-SFN Observed Time Difference", but the Neighbouring Cell Measurement Information IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the Common Measurement Type IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", but the $T_{\text{UTRAN-GPS}}$ Measurement Accuracy Class IE in the Common Measurement Accuracy IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the Common Measurement Type IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning", but the $T_{\text{UTRAN-GANSS}}$ Measurement Accuracy Class IE in the Common Measurement Accuracy IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

[FDD - If the COMMON MEASUREMENT INITIATION REQUEST message contains the Reference Received Total Wide Band Power Reporting IE and it does not contain the Common Measurement Type IE set to "Received Total Wide Band Power", the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.]

The allowed combinations of the Common Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the Node B shall regard the Common Measurement Initiation procedure as failed.
Table 4: Allowed Common Measurement Type and Report Characteristics Type combinations

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Received Total Wide Band Power</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acknowledged PRACH Preambles</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH RACH Report</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UL Timeslot ISCP</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTRAN GPS Timing of Cell Frames for UE Positioning</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>SFN-SFN Observed Time Difference</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[TDD - Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission]</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[FDD - Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission]</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Required Power</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Provided Bit Rate</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[FDD and 1.28Mcps TDD - Received Total Wide Band Power for Cell Portion]</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[FDD and 1.28Mcps TDD - Transmitted Carrier Power for Cell Portion]</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[FDD - Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH transmission for Cell Portion]</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UpPTS interference</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UppCH interference for Cell Portion</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DL Transmission Branch Load</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[FDD and 1.28Mcps TDD - HS-DSCH Required Power for Cell Portion]</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[FDD and 1.28Mcps TDD - HS-DSCH Provided Bit Rate for Cell Portion]</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Provided Bit Rate</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Provided Bit Rate for Cell Portion</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8.2.9 Common Measurement Reporting

8.2.9.1 General

This procedure is used by the Node B to report the result of measurements requested by the CRNC with the Common Measurement Initiation procedure.

8.2.9.2 Successful Operation

If the SFN IE is included in the COMMON MEASUREMENT INITIATION REQUEST message and the Report Characteristics IE is other than "Periodic", "On Demand" or "On Modification", the Node B shall regard the Common Measurement Initiation procedure as failed.

If the requested measurement reporting criteria are met, the Node B shall initiate the Common Measurement Reporting procedure. The COMMON MEASUREMENT REPORT message shall use the Node B Control Port.

The Measurement ID IE shall be set to the Measurement ID provided by the CRNC when initiating the measurement with the Common Measurement Initiation procedure.

[1.28Mcps TDD – If Time Slot LCR IE is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement results of all the available time slots in the frequency should be included in the COMMON MEASUREMENT INITIATION REPORT message.]
8.2.9.3 Abnormal Conditions

8.2.10 Common Measurement Termination

8.2.10.1 General

This procedure is used by the CRNC to terminate a measurement previously requested by the Common Measurement Initiation procedure.
8.2.10.2 Successful Operation

Figure 14: Common Measurement Termination procedure, Successful Operation

This procedure is initiated with a COMMON MEASUREMENT TERMINATION REQUEST message, sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall terminate reporting of common measurements corresponding to the received Measurement ID IE.

8.2.10.3 Abnormal Conditions

8.2.11 Common Measurement Failure

8.2.11.1 General

This procedure is used by the Node B to notify the CRNC that a measurement previously requested by the Common Measurement Initiation procedure can no longer be reported.

8.2.11.2 Successful Operation

Figure 15: Common Measurement Failure procedure, Successful Operation

This procedure is initiated with a COMMON MEASUREMENT FAILURE INDICATION message, sent from the Node B to the CRNC using the Node B Control Port, to inform the CRNC that a previously requested measurement can no longer be reported. The Node B has locally terminated the indicated measurement.

8.2.11.3 Abnormal Conditions

8.2.12 Cell Setup

8.2.12.1 General

This procedure is used to set up a cell in the Node B. The CRNC takes the cell, identified via the C-ID IE, into service and uses the resources in the Node B identified via the Local Cell ID IE.
8.2.12.2 Successful Operation

The procedure is initiated with a CELL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD - If the CELL SETUP REQUEST message includes one or more Secondary CPICH Information IE, the Node B shall configure and activate the Secondary CPICH(s) in the cell according to received configuration data.]

The Maximum Transmission Power IE value shall be stored in the Node B and, at any instance of time, the total maximum output power in the cell shall not be above this value. [1.28Mcps TDD - For a multi-frequency cell, at any instance of time, the total maximum output power for each frequency of the cell shall not be above this value.]

[FDD - If the Closed Loop Timing Adjustment Mode IE is included in the CELL SETUP REQUEST message, the value shall be stored in the Node B and applied when closed loop Feed-Back mode diversity is used on DPCH.]

[TDD - If the Reference SFN Offset IE is included in the CELL SETUP REQUEST message, the Node B where a reference clock is connected shall consider the SFN derived from the synchronisation port and the reference offset for reference time setting. All other Node Bs shall ignore the Reference SFN Offset IE if included.]

[FDD - If the IPDL Parameter Information IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL shall be stored in the Node B and applied according to the IPDL Indicator IE value. If the Burst Mode Parameters IE is included in the IPDL FDD Parameters IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the IPDL Parameter Information IE containing IPDL TDD Parameters IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 3.84Mcps TDD and 7.68Mcps TDD modes shall be stored in the Node B and applied according to the IPDL Indicator IE value. If the Burst Mode Parameters IE is included in the IPDL TDD Parameters IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - If the IPDL Parameter Information LCR IE containing IPDL TDD Parameters LCR IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 1.28Mcps TDD mode shall be stored in the Node B and applied according to the IPDL Indicator IE value. For MBSFN only mode, this IE shall be ignored by the Node B. If the Burst Mode Parameters IE is included in the IPDL TDD Parameters LCR IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - For a multi-frequency cell, the UARFCN Information LCR IE indicates information about the configuration of the frequency and timeslot of the secondary frequency/frequencies.]

When the cell is successfully configured, the Node B shall store the Configuration Generation ID IE value and send a CELL SETUP RESPONSE message as a response.

[FDD - When the cell is successfully configured the CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][3.84Mcps TDD and 7.68Mcps TDD - When the cell is successfully configured the SCH, Primary CCPCH and BCH exist and the switching-points for the 3.84Mcps TDD / 7.68Mcps TDD frame structure are defined.]

[1.28Mcps TDD - When the cell is successfully configured, the DwPCH, Primary CCPCH and BCH exist and the switching-points for the 1.28Mcps TDD frame structure are defined.] The cell and the channels shall be set to the state Enabled [6].

Figure 16: Cell Setup procedure, Successful Operation

The procedure is initiated with a CELL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD - If the CELL SETUP REQUEST message includes one or more Secondary CPICH Information IE, the Node B shall configure and activate the Secondary CPICH(s) in the cell according to received configuration data.]

The Maximum Transmission Power IE value shall be stored in the Node B and, at any instance of time, the total maximum output power in the cell shall not be above this value. [1.28Mcps TDD - For a multi-frequency cell, at any instance of time, the total maximum output power for each frequency of the cell shall not be above this value.]

[FDD - If the Closed Loop Timing Adjustment Mode IE is included in the CELL SETUP REQUEST message, the value shall be stored in the Node B and applied when closed loop Feed-Back mode diversity is used on DPCH.]

[TDD - If the Reference SFN Offset IE is included in the CELL SETUP REQUEST message, the Node B where a reference clock is connected shall consider the SFN derived from the synchronisation port and the reference offset for reference time setting. All other Node Bs shall ignore the Reference SFN Offset IE if included.]

[FDD - If the IPDL Parameter Information IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL shall be stored in the Node B and applied according to the IPDL Indicator IE value. If the Burst Mode Parameters IE is included in the IPDL FDD Parameters IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the IPDL Parameter Information IE containing IPDL TDD Parameters IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 3.84Mcps TDD and 7.68Mcps TDD modes shall be stored in the Node B and applied according to the IPDL Indicator IE value. If the Burst Mode Parameters IE is included in the IPDL TDD Parameters IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - If the IPDL Parameter Information LCR IE containing IPDL TDD Parameters LCR IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL in 1.28Mcps TDD mode shall be stored in the Node B and applied according to the IPDL Indicator IE value. For MBSFN only mode, this IE shall be ignored by the Node B. If the Burst Mode Parameters IE is included in the IPDL TDD Parameters LCR IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - For a multi-frequency cell, the UARFCN Information LCR IE indicates information about the configuration of the frequency and timeslot of the secondary frequency/frequencies.]

When the cell is successfully configured, the Node B shall store the Configuration Generation ID IE value and send a CELL SETUP RESPONSE message as a response.

[FDD - When the cell is successfully configured the CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][3.84Mcps TDD and 7.68Mcps TDD - When the cell is successfully configured the SCH, Primary CCPCH and BCH exist and the switching-points for the 3.84Mcps TDD / 7.68Mcps TDD frame structure are defined.]

[1.28Mcps TDD - When the cell is successfully configured, the DwPCH, Primary CCPCH and BCH exist and the switching-points for the 1.28Mcps TDD frame structure are defined.] The cell and the channels shall be set to the state Enabled [6].
[1.28Mcps TDD - For a multi-frequency cell, the Node B shall consider the cell as having been successfully configured as long as the primary frequency is normally setup. When the cell is successfully configured, the Node B shall respond with the CELL SETUP RESPONSE message.]

[TDD - The Node B shall ignore the DPCH/PUSCH/PRACH Constant Value IEs.]

[1.28Mcps TDD - For a multi-frequency cell, when the cell is successfully configured, the Node B shall configure the UpPCH channel of the primary frequency in the timeslot of UpPTS.]

[FDD - If the CELL SETUP REQUEST message includes Cell Portion Information IE, the Node B shall associate Associated Secondary CPICH IE to the cell portion indicated by Cell Portion ID IE and the Maximum Transmission Power for Cell Portion IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell portion indicated by Cell Portion ID IE shall not be above this value.]

[FDD - If the MIMO Pilot Configuration IE is included in the CELL SETUP REQUEST message, then the parameters defining the pilot configuration for MIMO shall be stored in the Node B and applied when MIMO mode is used according to [10].]

[FDD - If the MIMO Pilot Configuration Extension IE is included in CELL SETUP REQUEST, then the parameters extending the pilot information for MIMO shall be stored in the Node B and applied when MIMO mode is used according to [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL SETUP REQUEST message includes the MBSFN Cell Parameter ID IE, then the Node B shall configure the associated timeslot to operate in MBSFN mode using the scrambling codes and midambles dictated by the MBSFN Cell Parameter ID IE.]

[1.28Mcps TDD - If the CELL SETUP REQUEST message includes the MBSFN Only Mode Indicator IE, the Node B shall configure the associated timeslot(s) to operate as MBSFN time slot(s) using the scrambling codes and basic midamble codes dictated by the Time Slot Parameter ID IE.]

[1.28Mcps TDD - If the cell is operating in MBSFN only mode, the DwPCH Information IE shall be ignored by the Node B.]

[1.28 Mcps TDD - If the cell is operating in MBSFN only mode, the PCCPCH shall be deployed on the MBSFN Special Time Slot [19].]

[FDD - If the MIMO Pilot Configuration Extension IE is included in CELL SETUP REQUEST, then the parameters extending the pilot information for MIMO shall be stored in the Node B and applied when MIMO mode is used according to [10].]

8.2.12.3 Unsuccessful Operation

CRNC      Node B

CELL SETUP REQUEST

CELL SETUP FAILURE

Figure 17: Cell Setup procedure: Unsuccessful Operation

If the Node B cannot set up the cell according to the information given in CELL SETUP REQUEST message the CELL SETUP FAILURE message shall be sent to the CRNC.

In this case, the cell is Not Existing in the Node B. The Configuration Generation ID shall not be changed in the Node B.

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:
Radio Network Layer Cause:
- S-CPICH not supported
- Requested Tx Diversity Mode not supported
- Power level not supported
- Node B Resources unavailable
- IPDL not supported
- [FDD - S-CPICH power offset support not available]

Miscellaneous Cause:
- O&M Intervention
- Control processing overload
- HW failure

8.2.12.4 Abnormal Conditions
If the state of the cell already is Enabled or Disabled [6] when the CELL SETUP REQUEST message is received in the Node B, it shall reject the configuration of the cell and all channels in the CELL SETUP REQUEST message by sending a CELL SETUP FAILURE message with the Cause IE set to "Message not compatible with receiver state".

If the Local Cell on which the cell is mapped does not belong to a Power Local Cell Group and the requested maximum transmission power indicated by the Maximum Transmission Power IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by Maximum Transmission Power IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

8.2.13 Cell Reconfiguration

8.2.13.1 General
This procedure is used to reconfigure a cell in the Node B.
8.2.13.2 Successful Operation

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

[FDD - If the CELL RECONFIGURATION REQUEST message includes the Primary SCH Information IE, the Node B shall reconfigure the Primary SCH power in the cell according to Primary SCH Power IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the Secondary SCH Information IE, the Node B shall reconfigure the Secondary SCH power in the cell according to the Secondary SCH Power IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the Primary CPICH Information IE, the Node B shall reconfigure the Primary CPICH power in the cell according to the Primary CPICH Power IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes one or more Secondary CPICH Information IE, the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their Secondary CPICH Power IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the SCH Information IE, the Node B shall reconfigure the SCH power in the cell according to the SCH Power IE value.]

[7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the SCH Information 7.68Mcps IE, the Node B shall reconfigure the SCH power in the cell according to the SCH Power IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the Timing Advance Applied IE, the Node B shall apply the necessary functions for Timing Advance in that cell including reporting of the Rx Timing Deviation measurement, according to the Timing Advance Applied IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the Primary CCPCH Information IE, the Node B shall reconfigure the BCH power in the cell according to the BCH Power IE value.]

[1.28Mcps TDD and 3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the PCCPCH Information IE, the Node B shall reconfigure the P-CCPCH power in the cell according to the PCCPCH Power IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CCPCH power according to the new value.]

[7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the PCCPCH Information 7.68Mcps IE, the Node B shall reconfigure the P-CCPCH power in the cell according to the PCCPCH Power IE value. The Node B shall adjust all the transmitted power levels relative to the Primary CCPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the Maximum Transmission Power IE, the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.
[3.84Mcps TDD and 7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the Time Slot Configuration IE, the Node B shall reconfigure switching-point structure in the cell according to the Time Slot IE value.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the Time Slot Configuration LCR IE, the Node B shall reconfigure switching-point structure in the cell according to the Time Slot LCR IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the DPCH/PUSCH/PRACH Constant Value IEs, the Node B shall ignore them]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the DwPCH Information IE, the Node B shall reconfigure the DwPCH power in the Cell according to the DwPCH Power IE.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the IPDL Parameter Information IE with the IPDL Indicator IE set to the value "Active" the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the IPDL TDD Parameters IE. If the Burst Mode Parameters IE is included in the IPDL TDD Parameters IE, the IPDL shall be operated in burst mode according to ref [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the IPDL Parameter Information IE with the IPDL Indicator IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the IPDL TDD Parameters IE. If the Burst Mode Parameters IE is included in the IPDL TDD Parameters IE, the IPDL shall be operated in burst mode according to ref [21].]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the IPDL Parameter Information LCR IE with the IPDL Indicator IE set to the value "Active", the Node B shall apply the IPDL in that cell according to the latest received parameters defined by the IPDL TDD Parameters LCR IE. If the Burst Mode Parameters IE is included in the IPDL TDD Parameters LCR IE, the IPDL shall be operated in burst mode according to ref [21].]

If the CELL RECONFIGURATION REQUEST message includes the IPDL Parameter Information IE with the IPDL Indicator IE set to the value "Inactive", the Node B shall deactivate the ongoing IPDL.

When the cell is successfully reconfigured, the Node B shall store the new Configuration Generation ID IE value and send a CELL RECONFIGURATION RESPONSE message as a response.

If the CELL RECONFIGURATION REQUEST message includes the Synchronisation Configuration IE, the Node B shall reconfigure the indicated parameters in the cell according to the value of the N_INSINC_IND, N_OUTSYNC_IND and TRLF_FAILURE IEs. When the parameters in the Synchronisation Configuration IE affect the thresholds applied to an RL set, the Node B shall immediately apply the new thresholds. When applying the new thresholds, the Node B shall not change the state or value of any of the timers and counters for which the new thresholds apply.

[FDD - If the CELL RECONFIGURATION REQUEST message includes Cell Portion Information IE, the Maximum Transmission Power for Cell Portion IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell portion indicated by Cell Portion ID IE shall not be above this value.]

[FDD - If the MIMO Pilot Configuration IE is included in the CELL RECONFIGURATION REQUEST message, then the parameters defining the pilot configuration for MIMO shall be stored in the Node B and applied when MIMO mode is used according to [10].]

[3.84Mcps TDD and 7.68Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the MBSFN Cell Parameter ID IE, then the Node B shall configure the associated timeslot to operate in MBSFN mode using the scrambling code and midamble dictated by the MBSFN Cell Parameter ID IE.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the UARFCN Information To Add LCR IE, the Node B shall reserve the necessary resource and add a secondary frequency to the cell according to the information indicated in the UARFCN Information To Add LCR IE.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the UARFCN Information To Modify LCR IE, the Node B shall reconfigure the configuration of the secondary frequency within the cell according to the information indicated in the UARFCN Information To Modify LCR IE.]

[1.28Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the UARFCN Information To Delete LCR IE, the Node B shall remove the secondary frequency from the cell and any remaining dedicated channels on the secondary frequency according to the frequency information given in the UARFCN Information To Delete LCR IE. The states for the frequency within the cell shall be set to "Not existing". The Node B shall remove all Radio Links and all Node B Communication Contexts related to the secondary frequency within the cell. The Node B shall also
initiate the release of the user plane transport bearers for the removed dedicated channels on the secondary frequency within the cell.]

[1.28 Mcps TDD - If the cell is operating in MBSFN only mode, the PCCPCH shall be deployed on the MBSFN Special Time Slot [19].]

[FDD - If the MIMO Pilot Configuration Extension IE is included in CELL RECONFIGURATION REQUEST, then the parameters extending the pilot information for MIMO shall be stored in the Node B and applied when MIMO mode is used according to [10].]

If the CELL RECONFIGURATION REQUEST message includes the Dormant Mode Indicator IE, the Node B shall initiate the requested function. If Dormant Mode Indicator IE = "Enter Dormant Mode", after completion of the reconfiguration to dormant mode there shall be no power transmitted in the cell. If the Dormant Mode Indicator IE = "Leave Dormant Mode", the Node B shall initiate reconfiguration of the cell and resume the normal operating mode.

8.2.13.3 Unsuccessful Operation

Figure 19: Cell Reconfiguration procedure: Unsuccessful Operation

If the Node B cannot reconfigure the cell according to the information given in CELL RECONFIGURATION REQUEST message, the CELL RECONFIGURATION FAILURE message shall be sent to the CRNC.

In this case, the Node B shall keep the old configuration of the cell and the Configuration Generation ID shall not be changed in the Node B.

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:
- Power level not supported
- Node B Resources unavailable
- IPDL not supported
- [FDD - S-CPICH power offset support not available]
- [FDD - Requested Configuration Not Supported]

Miscellaneous Cause:
- O&M Intervention
- Control processing overload
- HW failure
8.2.13.4 Abnormal Conditions

If the IPDL Indicator IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is active IPDL ongoing in the Node B, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL already activated".

If the IPDL Indicator IE set to the value "Active" is included in the CELL RECONFIGURATION REQUEST message and there is no IPDL stored in the Node B defining the IPDL, the Node B shall respond with the CELL RECONFIGURATION FAILURE message with the cause value "IPDL parameters not available".

If the Local Cell on which the cell is mapped does not belong to of a Power Local Cell Group and the requested maximum transmission power indicated by the Maximum Transmission Power IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by Maximum Transmission Power IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

8.2.14 Cell Deletion

8.2.14.1 General

This procedure is used to delete a cell in the Node B.

8.2.14.2 Successful Operation

The procedure is initiated with a CELL DELETION REQUEST message sent from the CRNC to the Node B using the Node B Control Port. Upon reception, the Node B shall remove the cell and any remaining common and dedicated channels within the cell. The states for the cell and the deleted common channels shall be set to Not Existing [6]. The Node B shall remove all Radio Links from the Cell and all Node B Communication Contexts that as a result do not have a Radio Link. The Node B shall also initiate release of the user plane transport bearers for the removed common and dedicated channels except the case that there is at least one FACH channel in this cell using the same transport bearer existing in other cell(s) in the Node B. In this case, the Node B shall remove the cell and any remaining common and dedicated channels within the cell but keep the common transport bearer which is used by the remaining common transport channel(s) in other cell(s).

When the cell is deleted, the Node B shall send a CELL DELETION RESPONSE message as a response.

8.2.14.3 Unsuccessful Operation

- 

8.2.14.4 Abnormal Conditions

If the CELL DELETION REQUEST message includes a C-ID IE value that is not existing in the Node B, the Node B shall respond with the CELL DELETION RESPONSE message.
8.2.15 Resource Status Indication

8.2.15.1 General

This procedure is used in the following cases:

1. When a Local Cell becomes Existing at the Node B.
2. When a Local Cell is to be deleted in Node B, i.e. becomes Not Existing.
3. When the capabilities of the Local Cell change at the Node B.
4. When a cell has changed its capability and/or its resource operational state at the Node B.
5. When common physical channels and/or common transport channels have changed their capabilities at the Node B.
6. When a Communication Control Port has changed its resource operational state at the Node B.
7. When a Local Cell Group has changed its resource capability at the Node B.
8. [1.28Mcps TDD - For a multi-frequency cell, when a cell has been successfully set up but a secondary frequency failure has occurred within the cell.]

Each of the above cases shall trigger a Resource Status Indication procedure and the RESOURCE STATUS INDICATION message shall contain the logical resources affected for that case and the cause value when applicable.

8.2.15.2 Successful Operation

![Figure 21: Resource Status Indication procedure, Successful Operation](image)

The procedure is initiated with a RESOURCE STATUS INDICATION message sent from the Node B to the CRNC using the Node B Control Port.

**Local Cell Becomes Existing:**

When a Local Cell becomes Existing at the Node B, the Node B shall make it available to the CRNC by sending a RESOURCE STATUS INDICATION message containing a "No Failure" Indication, the Local Cell ID IE and the Add/Delete Indicator IE set equal to "Add".

When the capacity credits and consumption laws are shared between several Local Cells, the Node B includes the Local Cell Group ID IE for the Local Cell. If the Local Cell Group Information IE has not already been reported in a previous RESOURCE STATUS INDICATION message, the Node B shall include the capacity credits and the consumption laws in the Local Cell Group Information IE [FDD - , including also the E-DCH capacity consumption law, if E-DCH is supported].

If the Local Cell IE contains both the DL Or Global Capacity Credit IE and the UL Capacity Credit IE, then the internal resource capabilities of the Local Cell are modelled independently in the Uplink and Downlink direction. If the UL Capacity Credit IE is not present, then the internal resource capabilities of the Local Cell are modelled as shared resources between Uplink and Downlink. If the Local Cell Group Information IE contains both the DL Or Global Capacity Credit IE and the UL Capacity Credit IE, then the internal resource capabilities of the Local Cell Group are modelled independently in the Uplink and Downlink direction. If the UL Capacity Credit IE is not present, then the internal resource capabilities of the Local Cell Group are modelled as shared resources between Uplink and Downlink.

If the Node B internal power resources are pooled for a group of Local Cells, the Node B shall include the Power Local Cell Group ID IE for the Local Cell. If the Power Local Cell Group Information IE has not already been reported in a
previous RESOURCE STATUS INDICATION message, the Node B shall include this IE for the concerned Power Local Cell Group in this message. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

If the Local Cell is HSDPA-capable when it becomes Existing, the Node B shall include the HSDPA Capability IE set to "HSDPA Capable" and may include HS-DSCH MAC-d PDU Size Capability IE for the Local Cell.

If the Local Cell is E-DCH-capable when it becomes Existing, the Node B shall include the E-DCH Capability IE set to "E-DCH Capable" and may include E-DCH MAC-d PDU Size Capability IE for the Local Cell.

If the Local Cell is MBMS-capable when it becomes Existing, the Node B shall include the MBMS Capability IE set to "MBMS Capable" for the Local Cell.

[FDD - If the Local Cell is F-DPCH-capable when it becomes Existing, the Node B shall include the F-DPCH Capability IE set to "F-DPCH Capable" for the Local Cell.]

[FDD - If the Local Cell is both HSDPA-capable and E-DCH-capable when it becomes Existing, then the Node B shall include the Continuous Packet Connectivity DTX-DRX Capability IE set to "Continuous Packet Connectivity DTX-DRX Capable" for the Local Cell when Continuous Packet Connectivity DTX-DRX is supported.]

[FDD - If the Local Cell is both HSDPA-capable and E-DCH-capable when it becomes Existing, then the Node B shall include the Continuous Packet Connectivity HS-SCCH less Capability IE set to "Continuous Packet Connectivity HS-SCCH less Capable" for the Local Cell when Continuous Packet Connectivity HS-SCCH less is supported.]

[FDD - If the Local Cell is MIMO-capable when it becomes Existing, then the Node B shall include the MIMO Capability IE set to "MIMO Capable" for the Local Cell.]

[FDD - If the Local Cell is SixtyfourQAM DL-capable when it becomes Existing, then the Node B shall include the SixtyfourQAM DL Capability IE set to "SixtyfourQAM DL Capable" for the Local Cell.]
[FDD - If the Local Cell is Multi Cell Capable when it becomes Existing, the Node B shall include the Multi Cell Capability Info IE and set the Multi Cell Capability IE value to "Multi Cell Capable" for the Local Cell, and if the cell can be the serving HS-DSCH then the possible cells to serve multicell adjacent carrier operation [22] (same sector) that can act as secondary serving HS-DSCH shall be listed in the Possible Secondary Serving Cell List IE.]

[1.28Mcps TDD - If the Local Cell is both HSDPA-capable and E-DCH-capable when it becomes Existing, then the Node B shall include the Continuous Packet Connectivity DRX Capability LCR IE set to "Continuous Packet Connectivity DRX Capable" for the Local Cell when Continuous Packet Connectivity DRX is supported.]

[1.28Mcps TDD - If the Local Cell is both HSDPA-capable and E-DCH-capable when it becomes Existing, then the Node B shall include the Semi-Persistent scheduling Capability LCR IE set to "Semi-Persistent scheduling Capable" for the Local Cell when Semi-Persistent scheduling operation is supported.][1.28Mcps TDD- If the Local Cell is MIMO-capable when it becomes Existing, then the Node B shall include the MIMO Capability IE set to "MIMO Capable" for the Local Cell.]

[1.28Mcps TDD - If the Local Cell is both SixtyfourQAM DL-capable and MIMO-capable when it becomes Existing, then the Node B shall include the SixtyfourQAM DL and MIMO Combined Capability IE set to "SixtyfourQAM DL and MIMO Combined Capable" for the Local Cell when Combined SixtyfourQAM DL and MIMO is supported.]

[FDD - If the Local Cell is Enhanced UE DRX-capable when it becomes Existing, the Node B shall include the Enhanced UE DRX Capability IE set to "Enhanced UE DRX Capable" for the Local Cell.]

[1.28Mcps TDD- If the Local Cell is Cell Portion capable when it becomes Existing, then the Node B shall include the Cell Portion Capability LCR IE set to "Cell Portion Capable" for the Local Cell.]

[FDD - If the Local Cell is MIMO-capable and supports the MIMO Power Offset For S-CPICH Capability when it becomes Existing, the Node B shall include the MIMO Power Offset For S-CPICH Capability IE set to "S-CPICH Power Offset Capable" for the Local Cell.]

[FDD - If the Local Cell is MIMO-capable and supports DL control channels in transmit diversity for MIMO UEs (when MIMO is active and P-CPICH is not transmitted in diversity mode [7]) when it becomes Existing, the Node B shall include the TX Diversity on DL Control Channels by MIMO UE Capability IE set to "DL Control Channel Tx Diversity for MIMO UE with non-diverse P-CPICH Capable".]

[FDD - If the Local Cell is Single Stream MIMO-capable when it becomes Existing, then the Node B shall include the Single Stream MIMO Capability IE set to "Single Stream MIMO Capable" for the Local Cell.]

[FDD - If the Local Cell is Dual Band Capable when it becomes Existing, the Node B shall include the Dual Band Capability Info IE and set the Dual Band Capability IE value to "Dual Band Capable" for the Local Cell. If the cell can be the serving HS-DSCH then the possible cells to serve dual band carrier operation [22] (same sector) that can act as secondary serving HS-DSCH shall be listed in the Possible Secondary Serving Cell List IE.]

[FDD - If the local cell is capable of at least one feature listed in 9.2.2.129 when it becomes existing, the Node B shall include the Cell Capability Container IE and indicate the capabilities listed in 9.2.2.129 for the local cell.]

[1.28Mcps TDD - If the Local Cell is TS0-capable when it becomes Existing, the Node B shall include the TS0 Capability LCR IE set to "TS0 Capable" for every TS0 Capable Local Cell.]

[FDD - If the Local Cell, when it becomes Existing, is MIMO-capable and/or Single Stream MIMO-capable and configuration of the precoding weight set restriction defined in [18] is preferred, the Node B may include the Precoding Weight Set Restriction IE set to "Preferred" for the Local Cell.]

[1.28Mcps TDD - If the Local Cell is Adaptive Special Burst Power Capable when it becomes Existing, the Node B shall include the Adaptive Special Burst Power Capability LCR IE set to "Adaptive Special Burst Power Capable" for every Adaptive Special Burst Power Capable Local Cell.]

Local Cell Deletion:

When a Local Cell is to be deleted in the Node B, i.e. becomes Not Existing, the Node B shall withdraw the Local Cell from the CRNC by sending a RESOURCE STATUS INDICATION message containing a "No Failure" Indication, the Local Cell ID IE and the Add/Delete Indicator IE set to "Delete". The Node B shall not withdraw a previously configured cell at the Node B that the CRNC had configured using the Cell Setup procedure, until the CRNC has deleted that cell at the Node B using the Cell Delete procedure.

Capability Change of a Local Cell:
When the capabilities of a Local Cell change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication and the Local Cell ID IE.

The Node B shall include the Minimum DL Power Capability IE when it is known by the Node B.

If the maximum DL power capability of the Local Cell has changed, the new capability shall be indicated in the Maximum DL Power Capability IE.

If the DL capability for supporting the minimum spreading factor has changed, the new capability shall be indicated in the Minimum Spreading Factor IE.

[TDD - If the availability of the Reference clock connected to a Local Cell has changed, the new availability condition shall be indicated in the Reference Clock Availability IE.]

The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

If the internal resource capabilities of the Local Cell are affected, it shall be reported in the following way:

- If the internal resource capabilities of the Local Cell are modelled as shared resources between Uplink and Downlink, the new capacity shall be reported in the DL Or Global Capacity Credit IE.

- If the internal resource capabilities of the Local Cell are modelled independently in the Uplink and Downlink direction, then the DL Or Global Capacity Credit IE and the UL Capacity Credit IE shall be present in the RESOURCE STATUS INDICATION.

If the Capacity Consumption Law for Common Channels has changed for the Local Cell, the new law shall be reported by the Node B in the Common Channels Capacity Consumption Law IE.

If the Capacity Consumption Law for Dedicated Channels has changed for the Local Cell, the new law shall be reported by the Node B in the Dedicated Channels Capacity Consumption Law IE.

[FDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell, the new law shall be reported by the Node B in the E-DCH Capacity Consumption Law IE.]

[TDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell, the new law shall be reported by the Node B in the E-DCH TDD Capacity Consumption Law IE.]

If the HSDPA capability has changed for the Local Cell, the new capability shall be indicated in the HSDPA Capability IE.

If the HS-DSCH MAC-d PDU Size Capability has changed for the Local Cell, the new capability shall be indicated in the HS-DSCH MAC-d PDU Size Capability IE.

If the E-DCH capability has changed for the Local Cell, the new capability shall be indicated in the E-DCH Capability IE. [FDD - The Node B shall include the E-DCH Capability IE if any of the E-DCH TTI2ms, SF or HARQ Combining capabilities has changed for the E-DCH capable Local Cell.]

If the E-DCH MAC-d PDU Size Capability has changed for the Local Cell, the new capability shall be indicated in the E-DCH MAC-d PDU Size Capability IE.

If the MBMS capability has changed for the Local Cell, the new capability shall be indicated in the MBMS Capability IE.

[FDD - If the F-DPCH capability has changed for the Local Cell, the new capability shall be indicated in the F-DPCH Capability IE.]

[FDD - If the Continuous Packet Connectivity DTX-DRX capability has changed for the Local Cell that is both HSDPA-capable and E-DCH-capable, then the new capability shall be indicated in the Continuous Packet Connectivity DTX-DRX Capability IE. The Node B shall include the Continuous Packet Connectivity DTX-DRX Capability IE if the Max UE DTX Cycle supported by the Continuous Packet Connectivity DTX-DRX capable Local Cell has changed. If the Continuous Packet Connectivity HS-SCCH less capability has changed for the Local Cell that is both HSDPA-capable and E-DCH-capable, then the new capability shall be indicated in the Continuous Packet Connectivity HS-SCCH less Capability IE.]

[FDD - If the MIMO capability has changed for the Local Cell, then the new capability shall be indicated in the MIMO Capability IE.]
If the Support for E-DPCCH Power Boosting Capability has changed for the Local Cell, the new capability shall be indicated in the E-DPCCH Power Boosting Capability IE.

[FDD – If the SixtyfourQAM DL and MIMO Combined capability has changed for the Local Cell that is both SixtyfourQAM DL-capable and MIMO-capable, then the new capability shall be indicated in the SixtyfourQAM DL and MIMO Combined Capability IE.]

[1.28Mcps TDD - If the Enhanced FACH capability has changed for the Local Cell, the new capability shall be indicated in the Enhanced FACH Capability IE. The Node B shall include the Enhanced FACH Capability IE if the Enhanced PCH capability has changed for the Enhanced PCH capable Local Cell.]

[1.28Mcps TDD - If the SixtyfourQAM DL capability has changed for the Local Cell, then the new capability shall be indicated in the SixtyfourQAM DL Capability IE.]

[FDD - If the MBSFN Only Mode capability has changed for the Local Cell, the new capability shall be indicated in the MBSFN Only Mode Capability IE.]

[FDD - If the F-DPCH Slot Format capability has changed for the Local Cell, then the new capability shall be indicated in the F-DPCH Slot Format Capability IE.]

[FDD - If the Common E-DCH capability has changed for the Local Cell, the new capability shall be indicated in the Common E-DCH Capability IE. The Node B shall include the Common E-DCH Capability IE if the E-AI capability has changed for the Common E-DCH capable Local Cell. The Node B shall include the Common E-DCH Capability IE if the HS-DPCCH capability for Common E-DCH has changed for the Common E-DCH capable Local Cell.]

If the Support for E-DPCCH Power Boosting Capability has changed for the Local Cell, the new capability shall be indicated in the E-DPCCH Power Boosting Capability IE.

[1.28Mcps TDD - If the Enhanced FACH capability has changed for the Local Cell, the new capability shall be indicated in the Enhanced FACH Capability IE. The Node B shall include the Enhanced FACH Capability IE if the Enhanced PCH capability has changed for the Enhanced PCH capable Local Cell.]

[1.28Mcps TDD - If the SixtyfourQAM DL capability has changed for the Local Cell, then the new capability shall be indicated in the SixtyfourQAM DL Capability IE.]

[FDD - If the MBSFN Only Mode capability has changed for the Local Cell, the new capability shall be indicated in the MBSFN Only Mode Capability IE.]

[FDD - If the F-DPCH Slot Format capability has changed for the Local Cell, then the new capability shall be indicated in the F-DPCH Slot Format Capability IE.]

[1.28Mcps TDD - If the SixtyfourQAM DL capability has changed for the Local Cell, then the new capability shall be indicated in the SixtyfourQAM DL Capability IE.]

[FDD - If the MBSFN Only Mode capability has changed for the Local Cell, the new capability shall be indicated in the MBSFN Only Mode Capability IE.]

[FDD - If the F-DPCH Slot Format capability has changed for the Local Cell, then the new capability shall be indicated in the F-DPCH Slot Format Capability IE.]
[1.28Mcps TDD - If the Cell Portion capability has changed for the Local Cell, the new capability shall be indicated in the Cell Portion Capability LCR IE.]

[FDD - If the support for MIMO Power Offset For S-CPICH Capability has changed for the Local Cell, the new capability shall be indicated in the MIMO Power Offset For S-CPICH Capability IE.]

[FDD - If the support for DL control channels in transmit diversity for MIMO UEs (when MIMO is active and P-CPICH is not transmitted in diversity mode [7]) has changed for the Local Cell, the new capability shall be indicated in the TX Diversity on DL Control Channels by MIMO UE Capability IE.]

[FDD - If the Single Stream MIMO capability has changed for the Local Cell, then the new capability shall be indicated in the Single Stream MIMO Capability IE.]

[FDD - If any of the capabilities indicated 9.2.2.129 has changed for the Local Cell, the new capabilities shall be indicated in the Cell Capability Container IE.]

[1.28Mcps TDD - If the TS0 capability has changed for the Local Cell, then the new capability shall be indicated in the TS0 Capability LCR IE.]

[FDD - If the preference regarding configuration of the precoding weight set restriction defined in [18] has changed for the Local Cell, the new value shall be indicated in the Precoding Weight Set Restriction IE.]

[1.28Mcps TDD - If the Adaptive Special Burst Power capability has changed for the Local Cell, then the new capability shall be indicated in the Adaptive Special Burst Power Capability LCR IE.]

**Capability Change of a Cell:**

When the capabilities and/or resource operational state of a cell changes at the Node B, the Node B shall report the new capability and/or resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication, the Resource Operational State IE and the Availability Status IE. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

**Capability Change of a Common Physical Channel and/or Common Transport Channel:**

The Node B shall not delete any common or dedicated channels due to the cell being "Disabled". For all affected common and dedicated channels, the Node B shall report the impact to the CRNC with the relevant procedures.

When the capabilities and/or resource operational state of common physical channels and/or common transport channels have changed, the Node B shall report the new capability and/or resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication, the Resource Operational State IE and the Availability Status IE set to appropriate values for the affected channel(s). The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

When a power value for a common physical channel and/or a common transport channel becomes beyond the supported power value range due to a change in capability in the Node B, it shall be reported to the CRNC in the RESOURCE STATUS INDICATION message, with the Resource Operational State IE set to "Enabled", the Availability Status IE set to "Degraded" and the Cause IE set to "Power level not supported". Affected channels shall use the nearest power value that is supported.

[1.28Mcps TDD - Capability Change of a UpPCH channel:]

When the capabilities of UpPCH channels which are not configured in the timeslot of UpPTS on one or multiple frequencies have changed, the Node B may include the UpPCH Information LCR IE in the RESOURCE STATUS INDICATION message.

**Capability Change of a Communication Control Port:**

When the resource operational state of a Communication Control Port has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication and the Communication Control Port ID IE. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

**Capability Change of HS-DSCH Resources:**
When the resource operational state of the HS-DSCH resources has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the UARFCN IE in the HS-DSCH Resources Information IE to report the status of the HS-DSCH resources on the indicated frequency, the Node B may also not include any UARFCN IE in the HS-DSCH Resources Information IE to report the status of the HS-DSCH resources for the whole cell.]

**Capability Change of E-DCH Resources:**

When the resource operational state of the E-DCH resources has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

[1.28Mcps TDD - For a multi-frequency cell, the Node B may include the UARFCN IE in the E-DCH Resources Information IE to report the status of the E-DCH resources on the indicated frequency, the Node B may also not include any UARFCN IE in the E-DCH Resources Information IE to report the status of the E-DCH resources for the whole cell.]

**Capability Change of a Local Cell Group:**

When the resource capabilities of a Local Cell Group change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message containing a "Service Impacting" Indication and the Local Cell Group Information IE reporting the change. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to an appropriate value. If the RESOURCE STATUS INDICATION message contains both the DL Or Global Capacity Credit IE and the UL Capacity Credit IE, then the internal resource capabilities of the Node B are modelled independently in the Uplink and Downlink direction. If the UL Capacity Credit IE is not present, then the internal resource capabilities of the Node B are modelled as shared resources between Uplink and Downlink.

If the Capacity Consumption Law for Common Channels has changed for the Local Cell Group, the new law shall be reported by the Node B in the Common Channels Capacity Consumption Law IE.

If the Capacity Consumption Law for Dedicated Channels has changed for the Local Cell Group, the new law shall be reported by the Node B in the Dedicated Channels Capacity Consumption Law IE.

[FDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell Group, the new law shall be reported by the Node B in the E-DCH Capacity Consumption Law IE.]

[TDD - If the Capacity Consumption Law for E-DCH has changed for the Local Cell Group, the new law shall be reported by the Node B in the E-DCH TDD Capacity Consumption Law IE.]

**Capability Change of a Power Local Cell Group:**

When the power capability of a Power Local Cell Group changes at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the Indication Type IE set equal to "Service Impacting" and the Power Local Cell Group Information IE reporting the change. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to an appropriate value. In this case, the Node B shall also include the Maximum DL Power Capability IE in the Local Cell Information IE for all the Local Cells belonging to the concerned Power Local Cell Group. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

[1.28Mcps TDD - For a multi-frequency cell, when a cell has been successfully setup but a secondary frequency failure has occurred, the Node B shall report the status of the secondary frequency indicated by UARFCN IE on which the failure occurred by immediately sending a RESOURCE STATUS INDICATION message with the Indication Type IE set equal to "Service Impacting", the Resource Operational State IE and the Availability Status IE. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to an appropriate value.]

**General:**

When the RESOURCE STATUS INDICATION message is used to report an error, only one cause value for all reported objects can be sent in one message. When the RESOURCE STATUS INDICATION message is used to clear errors, only all errors for one object can be cleared per message. It is not possible to clear one out of several errors for one object.
8.2.15.3 Abnormal Conditions

8.2.16 System Information Update

8.2.16.1 General

The System Information Update procedure performs the necessary operations in order for the Node B to apply the correct scheduling of and/or to include the appropriate contents to the system information segments broadcast on the BCCH.

8.2.16.2 Successful Operation

<table>
<thead>
<tr>
<th>CRNC</th>
<th>Node B</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYSTEM INFORMATION UPDATE REQUEST</td>
<td></td>
</tr>
<tr>
<td>SYSTEM INFORMATION UPDATE RESPONSE</td>
<td></td>
</tr>
</tbody>
</table>

Figure 22: System Information Update procedure, Successful Operation

The procedure is initiated with a SYSTEM INFORMATION UPDATE REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

The Node B shall consider the requested updates to the BCCH schedule in the same order as the MIB/SB/SIB information is included in the SYSTEM INFORMATION UPDATE REQUEST message.

If the SYSTEM INFORMATION UPDATE REQUEST message includes the BCCH Modification Time IE, the updates to the BCCH schedule (possibly consisting of IB occurrence additions, IB occurrence deletions and IB occurrence contents updates) indicated in the SYSTEM INFORMATION UPDATE REQUEST message shall be applied by the Node B at the first time instance starting from the SFN value set by the BCCH Modification Time IE. If no BCCH Modification Time IE is included, the updates to the BCCH schedule shall be applied as soon as possible.

Information Block addition:

If the SYSTEM INFORMATION UPDATE REQUEST message includes segments of a certain MIB/SB/SIB, the Node B shall assume that all segments for that Information Block are included in the message and ordered with increasing Segment Index (starting from 0). For each included segment, segment type information and IB SG POS IE are also given in the SYSTEM INFORMATION UPDATE REQUEST message.

The Node B shall determine the correct cell system frame number(s) (SFN) for transmission of the segments of system information, from the scheduling parameters provided in the SYSTEM INFORMATION UPDATE REQUEST message. The SFN for transmitting the segments shall be determined by the IB SG REP IE and IB SG POS IE such that:

- \[ \text{SFN} \mod \text{IB}_\text{SG REP} = \text{IB}_\text{SG POS} \]

If the SYSTEM INFORMATION UPDATE REQUEST message contains Master Information Block (MIB) segments in addition to SIB or SB segments, the MIB segments shall first be sent in the physical channel by the Node B. Once these MIB segments have been sent in the physical channel, the updated SB/SIB segments shall then be sent in the physical channel.

Only if the inclusion of each new IB segment in the BCCH schedule leads to a valid segment combination according to [18], the Node B shall accept the system information update.

If the SIB Originator IE value is set to "Node B", the Node B shall create the SIB segment of the SIB type given by the IB Type IE and autonomously update the SIB segment and apply the scheduling and repetition as given by the IB SG REP IE and IB SG POS IE.
SIBs originating from the Node B can only be SIBs containing information that the Node B can obtain on its own.

**Information Block deletion:**
If an IB Deletion is indicated in an instance of *MIB/SB/SIB information* IE in the SYSTEM INFORMATION UPDATE REQUEST message, the Node B shall delete the IB indicated by the *IB Type* IE and *IB OC ID* IE from the transmission schedule on BCCH.

**Information Block update:**
If the SYSTEM INFORMATION UPDATE REQUEST message contains segments for an IB without *IB SG REP* IE and *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a *MIB/SB/SIB information* IE repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB segments are included, then the Node B shall only update the contents of the IB segments without any modification in segment scheduling.

If the Node B successfully completes the updating of the physical channel scheduling cycle according to the parameters given in the SYSTEM INFORMATION UPDATE REQUEST message, it shall respond to the CRNC with a SYSTEM INFORMATION UPDATE RESPONSE message.

### 8.2.16.3 Unsuccessful Operation

![Figure 23: System Information Update procedure, Unsuccessful Operation](image)

If the Node B is unable to update the physical channel scheduling cycle according to all the parameters given in the SYSTEM INFORMATION UPDATE REQUEST message, it shall respond with a SYSTEM INFORMATION UPDATE FAILURE message with an appropriate cause value.

The Node B shall not incorporate any of the requested changes into the physical channel scheduling cycle, and the previous system information configuration shall remain intact.

Typical cause values are:

**Radio Network Layer Cause:**
- SIB Origination in Node B not Supported

**Miscellaneous Cause:**
- Hardware failure
- Control Processing overload
- O&M Intervention

### 8.2.16.4 Abnormal Conditions

The Node B shall reject, with the cause value "SIB origination in Node B not supported", requests for Node B originated system information blocks that make use of a value tag.

The Node B shall reject the requested update with cause value "BCCH scheduling error" if:

- After having handled a certain *MIB/SB/SIB information* IE repetition, an illegal BCCH schedule results;
- If a *MIB/SB/SIB Information* IE repetition includes an *IB SG REP* IE or an *IB SG POS* IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID which is not requested to be deleted from the BCCH schedule by an IB deletion indicated in a *MIB/SB/SIB information* IE repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated. This rule shall apply even if
the scheduling instructions in IB SG REP IE and IB SG POS IE were the same as the current scheduling instructions for the concerned IB;

- If a MIB/SB/SIB Information IE repetition includes no IB SG REP IE and IB SG POS IE and there is no IB in the BCCH schedule with the same IB Type and IB OC ID;

- If a MIB/SB/SIB Information IE repetition includes no IB SG REP IE and IB SG POS IE and there is already an IB in the BCCH schedule with the same IB Type and IB OC ID but it is requested to be deleted from the BCCH schedule by an IB deletion indicated in a MIB/SB/SIB information IE repetition present in the SYSTEM INFORMATION UPDATE REQUEST message before the IB addition is indicated.

8.2.17 Radio Link Setup

8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

[FDD - The Radio Link Setup procedure is used to establish one or more radio links. The procedure establishes one or more DCHs on all radio links, and in addition, it can include the establishment of an HS-DSCH on one radio link and it can include the establishment of an E-DCH on one or more radio links.]

[TDD - The Radio Link Setup procedure is used to establish one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs, or DCHs and an HS-DSCH, or DCHs, an HS-DSCH and an E-DCH, including also combinations where one or more transport channel types are not present.]

8.2.17.2 Successful Operation

The procedure is initiated with a RADIO LINK SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception of the RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

The Node B shall prioritise resource allocation for the RL(s) to be established according to Annex A.

If the UE Aggregate Maximum Bit Rate IE is contained in the RADIO LINK SETUP REQUEST message, the Node B shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

Transport Channels Handling:

DCH(s):

[TDD - If the DCH Information IE is present, the Node B shall configure the new DCH(s) according to the parameters given in the message.]

If the RADIO LINK SETUP REQUEST message includes a DCH Information IE with multiple DCH Specific Info IEs, then the Node B shall treat the DCHs in the DCH Information IE as a set of co-ordinated
DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

If the DCH Specific Info IE includes the Unidirectional DCH Indicator IE set to "Uplink DCH only", the Node B shall ignore the Transport Format Set IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

If the DCH Specific Info IE includes the Unidirectional DCH Indicator IE set to "Downlink DCH only", the Node B shall ignore the Transport Format Set IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.

[FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the QE-Selector IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If the QE-Selector IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]

For a set of co-ordinated DCHs, the Transport channel BER from the DCH with the QE-Selector IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD - If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have QE-Selector IE set to "non-selected", the Physical channel BER shall be used for the QE, ref. [16].]

The Node B shall use the included UL FP Mode IE for a DCH or a set of co-ordinated DCHs as the FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included ToAWS IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The Node B shall use the included ToAWE IE for a DCH or a set of co-ordinated DCHs as the Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the configuration.

The received Frame Handling Priority IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new RL(s) has been activated.

If the TNL QoS IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.

[FDD - The Diversity Control Field IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not.

- If the Diversity Control Field IE is set to "May", the Node B shall decide for either of the alternatives.
- If the Diversity Control Field IE is set to "Must", the Node B shall combine the RL with one of the other RL.
- If the Diversity Control Field IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.

The signalled Diversity Control Field IE is applied to Dedicated Transport Channels (DCH) only. In case of E-DCH it shall always be assumed to be set to "Must". When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

[FDD - In the RADIO LINK SETUP RESPONSE message, the Node B shall indicate for each RL with the Diversity Indication in the RL Information Response IE whether the RL is combined or not.]

[FFD - In case of not combining with a RL previously listed in the RADIO LINK SETUP RESPONSE message or for the first RL in the RADIO LINK SETUP RESPONSE message, and if the DCH Indicator For E-DCH-HSDPA Operation IE is not included in the RADIO LINK SETUP REQUEST message, the Node B shall:]
[FDD - include in the DCH Information Response IE in the RADIO LINK SETUP RESPONSE message for which the Transport Bearer Not Requested Indicator IE was not included the Binding ID IE and Transport Layer Address IE for the transport bearer to be established for each DCH of this RL.]

- [FDD - include in the RADIO LINK SETUP RESPONSE message the Transport Bearer Not Setup Indicator IE for every DCH for which establishment of a transport bearer has not taken place as a result of information in the Transport Bearer Not Requested Indicator IE in the RADIO LINK SETUP REQUEST message.]

- [FDD - For the first E-DCH RL in the RADIO LINK SETUP RESPONSE message, the Node B shall:]
  - [FDD - include in the E-DCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE for the transport bearer to be established for each E-DCH MAC-d flow of this RL.]
  - [FDD - include in the RADIO LINK SETUP RESPONSE message the Transport Bearer Not Setup Indicator IE for every E-DCH MAC-d flow for which establishment of a transport bearer has not taken place as a result of information in the Transport Bearer Not Requested Indicator IE in the RADIO LINK SETUP REQUEST message.]

- [FDD - Otherwise in case of combining, the RL ID IE indicates (one of) the RL(s) previously listed in this RADIO LINK SETUP RESPONSE message with which the concerned RL is combined and if the ALCAP is not used and the transport bearer for the DCH is already established, the Transport Layer Address IE and the Binding ID IE in the RL Specific DCH Information IE included in the RL Information IE for a specific RL in the RADIO LINK SETUP REQUEST message, shall not be used. In case of combining an E-DCH RL, one of the RLs previously listed in this RADIO LINK SETUP RESPONSE message including the E-DCH FDD Information Response IE shall be regarded as the RL with which the concerned E-DCH RL is combined.]

[TDD - The Node B shall include in the DCH Information Response IE in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE for the transport bearer to be established for each DCH of this RL.]

[TDD - If an E-DCH has been established, the Node B shall include in the E-DCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE for the transport bearer to be established for each E-DCH MAC-d flow of the RL.]

In the case of a set of co-ordinated DCHs, the Binding ID IE and the Transport Layer Address IE shall be specified for only one of the DCHs in the set of co-ordinated DCHs [FDD - where the Transport Bearer Not Requested Indicator IE was not included].

[FDD - If the RADIO LINK SETUP REQUEST message includes the Transport Bearer Not Requested Indicator IE set to "Transport Bearer shall not be Established" for a DCH, then the Node B shall not establish a transport bearer for the concerned DCH and shall include the Transport Bearer Not Setup Indicator IE for the corresponding DCH in the RADIO LINK SETUP RESPONSE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the Transport Bearer Not Requested Indicator IE set to "Transport Bearer may not be Established" for a DCH and:]  
  - [FDD - if the Node B establishes a transport bearer for the concerned DCH, the Node B shall include in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE for establishment of a transport bearer for the DCH being established.]
  - [FDD - if the Node B does not establish a transport bearer for the concerned DCH, the Node B shall include the Transport Bearer Not Setup Indicator IE for the corresponding DCH in the RADIO LINK SETUP RESPONSE message.]

[TDD - DSCH(s):]

[TDD - If the DSCH Information IE is present, the Node B shall configure the new DSCH(s) according to the parameters given in the message.]
[TDD - If the RADIO LINK SETUP REQUEST message includes the Transport Layer Address IE and Binding ID IE in the DSCH Information IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DSCH.]

[TDD - The Node B shall include in the DSCH Information Response IE in the RADIO LINK SETUP RESPONSE the Binding ID IE and the Transport Layer Address IE for the transport bearer to be established for each DSCH of this RL.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the TNL QoS IE in the DSCH TDD Information IE and if ALCAP is not used, the Node B may use the TNL QoS IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

[TDD - USCH(s):]

[TDD - If the USCH Information IE is present, the Node B shall configure the new USCH(s) according to the parameters given in the message.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the Transport Layer Address IE and Binding ID IE in the USCH Information IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the USCH.]

[TDD - If the RADIO LINK SETUP REQUEST message includes the TNL QoS IE in the USCH Information IE and if ALCAP is not used, the Node B may use the TNL QoS IE to determine the transport bearer characteristics to apply in the uplink for the related USCH.]

[TDD - If the USCH Information IE is present, the Node B shall include in the USCH Information Response IE in the RADIO LINK SETUP RESPONSE message the Binding ID IE and the Transport Layer Address IE for the transport bearer to be established for each USCH of this RL.]

HS-DSCH:

If the HS-DSCH Information IE is present in the RADIO LINK SETUP REQUEST message, then:

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.

- The Node B shall include the HARQ Memory Partitioning IE in the [FDD - HS-DSCH FDD Information Response IE] [TDD - HS-DSCH TDD Information Response IE] in the RADIO LINK SETUP RESPONSE message. [FDD - The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.] [1.28Mcps TDD - The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]

- The Node B shall include in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.

- If the RADIO LINK SETUP REQUEST message includes the Transport Layer Address IE and Binding ID IE in the HS-DSCH Information IE for an HS-DSCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow.

- If the RADIO LINK SETUP REQUEST message includes the MAC-hs Guaranteed Bit Rate IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.

- If the RADIO LINK SETUP REQUEST message includes the Discard Timer IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.
If the RADIO LINK SETUP REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall ignore the SID IE and MAC-d PDU Size IE in the MAC-d PDU Size Index IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related HSDPA Priority Queue.

The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the [FDD - HS-DSCH FDD Information Response IE] [TDD - HS-DSCH TDD Information Response IE] in the RADIO LINK SETUP RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK SETUP REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK SETUP REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.

- [FDD - If the RADIO LINK SETUP REQUEST message includes the HS-SCCH Power Offset IE in the HS-DSCH Information IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]

- [FDD - If the RADIO LINK SETUP REQUEST message includes the Measurement Power Offset IE in the HS-DSCH Information IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [TDD - The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD - HS-SCCH Specific Information Response IE] [1.28Mcps TDD - HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD - HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD - If the RADIO LINK SETUP REQUEST message includes the HARQ Preamble Mode IE in the HS-DSCH Information IE, then the Node B shall use the indicated HARQ Preamble Mode as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK SETUP RESPONSE message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the Node B shall not include the HARQ Preamble Mode Activation Indicator IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the HS-SICH SIR Target IE in the HS-DSCH Information IE, the Node B shall use this value to determine the HS-SICH SIR Target. The HS-SICH SIR Target IE indicates the received UL SIR target of HS-SICH NACK for this UE.]

- If the RADIO LINK SETUP REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].

- If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.

- [FDD - If the Serving Cell Change CFN IE is included in the RADIO LINK SETUP REQUEST message, then the Node B shall activate the resources that are allocated for the new serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC.]

- [FDD - If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide
the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]

- [FDD - If the RADIO LINK SETUP REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the RADIO LINK SETUP RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

- [FDD - If the UE with enhanced HS-SCCH support indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may use: ]
  - [FDD - a different HS-SCCH in consecutive TTIs for this UE]
  - [FDD - HS-SCCH orders for the case of HS-SCCH-less operation to this UE]

- [FDD - If the UE Support Indicator Extension IE is included in the HS-DSCH FDD Information IE the Node B may use the supported HSDPA functions for this UE.]

- [1.28Mcps TDD - If the TSN-Length IE is included in the HS-DSCH TDD Information IE, then the IE is used to indicate the TSN bits applied to the MAC-hs PDU frame.]

- [1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the Number of Supported Carriers IE in the UE Capabilities Information IE in the HS-DSCH Information IE, the Node B shall use this information to allocate HSDPA resources over multiple carriers for the UE.]

- [1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK SETUP REQUEST message includes the Multi-carrier HS-DSCH Physical Layer Category IE in the UE Capabilities Information IE in the HS-DSCH Information IE, the Node B shall use this information together with the HS-DSCH Physical Layer Category IE in the UE Capabilities Information IE in the HS-DSCH Information IE to allocate HSDPA resources over multiple carriers for the UE.]

- [1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the UE TS0 Capability LCR IE in the UE Capabilities Information IE in the HS-DSCH Information IE, the Node B may use this information in HSDPA resources allocation for the UE.]

- [1.28Mcps TDD - If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple carriers and include the HS-SCCH Specific Information Response LCR per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28Mcps TDD - If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall include the HARQ Memory Partitioning per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28Mcps TDD - If the Node B allows UE to apply HSDPA resources distributed over multiple carriers, the Node B may indicate the number of carriers actually used by the UE and include the Multi-Carrier number IE in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28Mcps TDD - If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the UsedFrequency IE in the HS-SCCH Specific Information Response LCR IE in the RADIO LINK SETUP RESPONSE message.]
- [1.28 Mcps TDD - If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the _UARFCN_ IE in the **HS-SCCH Specific Information Response LCR per UARFCN** IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28 Mcps TDD - If the MIMO Activation Indicator IE is included in the HS-DSCH TDD Information IE, then, the Node B shall activate the MIMO mode for the HS-DSCH Radio Link, decide the SF mode for HS-PDSCH dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- If the RADIO LINK SETUP REQUEST message includes the **DL RLC PDU Size Format** IE for a Priority Queue in the **HS-DSCH MAC-d Flows Information** IE in the **HS-DSCH Information** IE, the **DL RLC PDU Size Format** IE may be used by the Node B to determine the allocated capacity on user plane as described in [24].

- [FDD - If the RADIO LINK SETUP REQUEST message includes the **UE Aggregate Maximum Bit Rate Enforcement Indicator** IE in the **Priority Queue Information** IE in the **HS-DSCH MAC-d Flows Information** IE in the **HS-DSCH Information** IE, the NodeB shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]

- [FDD - If the **Single Stream MIMO Activation Indicator** IE is included in the **HS-DSCH FDD Information** IE, then the Node B shall activate the Single Stream MIMO mode for the HS-DSCH Radio Link.]

[FDD - Secondary Serving HS-DSCH:]

[FDD - If the **Additional HS Cell Information RL Setup** IE is present in the RADIO LINK SETUP REQUEST message, then:]

- [FDD - The Node B shall setup the requested HS-PDSCH resources on the secondary serving HS-DSCH Radio Link indicated by the **HS-PDSCH RL ID** IE. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]

- [FDD - If the RADIO LINK SETUP REQUEST message includes the **HS-SCCH Power Offset** IE in the **HS-DSCH FDD Secondary Serving Information** IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and include the **HS-SCCH Specific Secondary Serving Information Response** IE in the **HS-DSCH FDD Secondary Serving Information Response** IE in the **Additional HS Cell Information Response** IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD - If the **Serving Cell Change CFN** IE is included in the RADIO LINK SETUP REQUEST message, then the Node B shall activate the resources that are allocated for the new secondary serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC.]

- [FDD - If the **MIMO Activation Indicator** IE is included in the **HS-DSCH FDD Secondary Serving Information** IE, then the Node B shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the **MIMO N/M Ratio** IE in the **HS-DSCH FDD Secondary Serving Information Response** IE in the **Additional HS Cell Information Response** IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD - If the **Single Stream MIMO Activation Indicator** IE is included in the **HS-DSCH FDD Secondary Serving Information** IE, then the Node B shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]

- [FDD - If the **Sixtyfour QAM Usage Allowed Indicator** IE is included in the **HS-DSCH FDD Secondary Serving Information** IE, then the Node B may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the **Sixtyfour QAM DL Usage Indicator** IE in the **HS-DSCH FDD Secondary Serving Information Response** IE in the **Additional HS Cell Information Response** IE in the RADIO LINK SETUP RESPONSE message.]
- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE with value set to "not allowed", then the Node B shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]

- [FDD - If Sixtyfour QAM will not be used for the secondary serving HS-DSCH Radio Link, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the ADDITIONAL HS Cell Information Response IE in the RADIO LINK SETUP RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

[FDD - E-DCH]:

- [FDD - If the E-TFCS Information IE in the E-DPCH Information IE contains the E-DCH Minimum Set E-TFCI IE the Node B shall use the value for the related resource allocation operation.]

- [FDD - If the E-TFCS Information IE in the E-DPCH Information IE contains the E-DPDCH Power Interpolation IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in [10]. If the E-DPDCH Power Interpolation IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [10].]

- [FDD - If the E-TFCS Information IE in the E-DPCH Information IE contains the E-TFCI Boost Information IE, the Node B shall use the information according to [10]. If the E-TFCI Boost Information IE is not present, the Node B shall use the E-TFCI BetaEC Boost value "127" in the algorithm defined in [10].]

- [FDD - If the RADIO LINK SETUP REQUEST message includes the E-DPCH Information IE, which contains the Minimum Reduced E-DPDCH Gain Factor IE, then the Node B shall use the value to determine the applicable minimum gain factor \( f_{ed,k,\text{reduced},\text{min}} \) defined in [10]. For the case the Minimum Reduced E-DPDCH Gain Factor IE is not available for the Node B Communication Context, the Node B may use the default value defined in [18].]

- [FDD - If the E-DCH FDD Information IE is present in the RADIO LINK SETUP REQUEST message:]
  - [FDD - The Node B shall setup the requested E-DCH resources on the Radio Links indicated by the E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE.]
  - [FDD - If the RADIO LINK SETUP REQUEST message includes the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the Node B shall use this information for the related resource allocation operation.]
  - [FDD - If the RADIO LINK SETUP REQUEST message includes the Transport Layer Address IE and Binding ID IE in the RL specific E-DCH FDD Information IE for an E-DCH MAC-d flow, then if the Transport Bearer Not Requested Indicator IE is not included for this E-DCH MAC-d flow, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. The Node B shall include in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE for establishment of a transport bearer for every E-DCH MAC-d flow being established for which the Transport Bearer Not Requested Indicator IE was not included.]
  - [FDD - If the RADIO LINK SETUP REQUEST message includes the Transport Bearer Not Requested Indicator IE set to "Transport Bearer shall not be Established" for an E-DCH MAC-d flow, then the Node B shall not establish a transport bearer for the concerned E-DCH MAC-d flow and shall include the Transport Bearer Not Setup Indicator IE for the corresponding E-DCH MAC-d flow in the RADIO LINK SETUP RESPONSE message.]
  - [FDD - If the RADIO LINK SETUP REQUEST message includes the Transport Bearer Not Requested Indicator IE set to "Transport Bearer may not be Established" for an E-DCH MAC-d flow and:]
[FDD - if the Node B does not establish a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include the Transport Bearer Not Setup Indicator IE for the corresponding E-DCH MAC-d flow in the RADIO LINK SETUP RESPONSE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH Logical Channel Information IE in the E-DCH FDD Information IE, then the Node B shall use this information to optimise MAC-e scheduling decisions for the related reordering queue.]

[FDD - If the RADIO LINK SETUP REQUEST message includes UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flow Specific Information IE in the E-DCH FDD Information IE, the Node B shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels [24] and MAC [32].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the E-DCH MAC-d Flow Multiplexing List IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]

[FDD - If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]

[FDD - If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" the Node B shall assume scheduled grants being configured for the concerned E-DCH MAC-d flow.]

[FDD - If the TNL QoS IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]

[FDD - The Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK SETUP RESPONSE message for every RL indicated by the E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the Serving E-DCH RL IE indicating that the Serving E-DCH RL is in this Node B]

- [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD - The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the RADIO LINK SETUP RESPONSE message for the initial grant for the serving E-DCH RL.]

- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD - The Node B may include the Default Serving Grant in DTX Cycle 2 IE in the RADIO LINK SETUP RESPONSE message for the serving E-DCH RL.]
- [FDD] If the RADIO LINK SETUP REQUEST message includes the Bundling Mode Indicator IE for an E-DCH MAC-d flow in the E-DCH MAC-d Flow Specific Information IE in the E-DCH FDD Information IE and the Bundling Mode Indicator IE is set to "Bundling" and the E-TTI IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.

- [FDD] If the RADIO LINK SETUP REQUEST message includes the E-DCH Maximum Bitrate IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.

- [FDD] If the RADIO LINK SETUP REQUEST message includes the E-DCH Processing Overload Level IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the E-DCH Processing Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.

- [FDD] If the RADIO LINK SETUP REQUEST message includes the E-DCH ReferencePower Offset IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.

- [FDD] If the RADIO LINK SETUP REQUEST message includes the E-DCH Power Offset for Scheduling Info IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.

- [FDD] If the RADIO LINK SETUP REQUEST message includes the E-AGCH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.

- [FDD] If the RADIO LINK SETUP REQUEST message includes the E-RGCH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.

- [FDD] If the RADIO LINK SETUP REQUEST message includes the E-HICH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.

- [FDD] If the Serving Cell Change CFN IE is included in the RADIO LINK SETUP REQUEST message, then the Node B shall activate the resources that are allocated for the new serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC.

- [FDD] If the RADIO LINK SETUP REQUEST message includes the SixteenQAM UL Operation Indicator IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the SixteenQAM UL Operation Indicator IE.

- [FDD] If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].

- [FDD] If the RADIO LINK SETUP REQUEST message includes the E-RNTI IE in the E-DPCH Information IE but does not include the E-RNTI IE in the RL Information IE, the Node B shall use the information to detect the information related to the E-RNTI which is configured in the Node B when the UE was in Cell_FACH state.

[FDD – Additional E-DCH Setup:]

[FDD] If the Additional E-DCH Cell Information RL Setup Req IE is present in the RADIO LINK SETUP REQUEST message, then the Additional E-DCH Cell Information Setup Req IE defines the new configuration and then:

- [FDD] The Node B shall setup the E-DCH on the secondary uplink frequency and setup the requested E-DCH resource on the Radio Links and in the cells indicated by the E-DCH Additional RL ID IE and the C-ID IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH
FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE. Non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]

- [FDD - If the DL Power Balancing Information IE and/or the Minimum Reduced E-DPCH Gain Factor IE are present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the Node B shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]

- [FDD - If the Secondary UL Frequency Activation State IE is present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the Propagation Delay IE, the F-DPCH Slot Format IE and/or the E-RNTI IE are present in the Additional E-DCH RL Specific Information To Setup IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the Extended Propagation Delay IE, the Primary CPICH Usage For Channel Estimation IE, the Secondary CPICH Information IE, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE and/or the E-HICH Power Offset IE are present in the Multicell E-DCH RL Specific Information IE in the Additional E-DCH RL Specific Information To Setup IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Maximum Bitrate IE, the E-DCH Processing Overload Level IE and/or the E-DCH Minimum Set E-TFCl IE are present in the Additional E-DCH FDD Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the Multicell E-DCH Transport Bearer Mode IE for an Additional E-DCH to be Setup is set to "Separate Iub Transport Bearer Mode" the Node B shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]

- [FDD – If the Multicell E-DCH Transport Bearer Mode IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the Node B shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]

- [FDD - If Separate Iub Transport Bearer Mode is used in the new configuration, then:]

  - [FDD - The Node B shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow and use the Transport Bearer Not Requested Indicator IE in the E-DCH MAC-d Flow Specific Information IE in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE to determine the transport bearer configuration in the new configuration for the MAC-d flow of the Secondary Uplink Frequency.]

  - [FDD - If the Transport Layer Address IE and Binding ID IE is included for an E-DCH MAC-d flow in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH FDD Information IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow the Node B shall include in the RADIO LINK SETUP RESPONSE message the Binding ID IE and Transport Layer Address IE in the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE for establishment of a transport bearer for every E-DCH MAC-d flow being established.]

- [FDD - If activation of power balancing for the Additional E-DCH RL by the RADIO LINK SETUP REQUEST message is supported by the Node B, the Node B shall include the DL Power Balancing Activation Indicator IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD - For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. And the
generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]

- [FDD - For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]

- [FDD - For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the E-DCH RL Set ID IE for the Additional E-DCH RL in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD - For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD – If the Additional Serving E-DCH Radio Link is configured in the Node B, then:]

  - [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]

  - [FDD - The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2IE.]

  - [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP RESPONSE message.]

  - [FDD - If the Serving Cell Change CFN IE is included in the RADIO LINK SETUP REQUEST message, then the Node B shall activate the resources that are allocated for the new additional serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. If the Serving Cell Change CFN IE is not included then the Node B shall activate immediately the resources that are allocated for the new additional serving E-DCH Radio Link]

[FDD - E-DCH - HS-DSCH]:

[FDD - If the RADIO LINK SETUP REQUEST message includes the DCH Indicator For E-DCH-HSDPA Operation IE, then the Node B shall ignore the DCH Information IE in the RADIO LINK SETUP REQUEST message.]

[TDD - E-DCH]:

[TDD - If the [3.84Mcps TDD - E-DCH Information IE][1.28Mcps TDD - E-DCH Information 1.28Mcps IE][7.68Mcps TDD - E-DCH Information 7.68Mcps IE] is present in the RADIO LINK SETUP REQUEST message:]

ETSI
- [TDD - The Node B shall setup the requested E-DCH resources on the Radio Link indicated by the E-DCH Serving RL IE.]

- [TDD - If the TNL QoS IE is included in the E-DCH MAC-d Flows Information TDD IE for an E-DCH MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]

- [TDD - If the RADIO LINK SETUP REQUEST message includes the Transport Layer Address IE and Binding ID IE in the E-DCH MAC-d Flows Information TDD IE for an E-DCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]

- [TDD - If the RADIO LINK SETUP REQUEST message includes the E-DCH MAC-d Flow Multiplexing List IE for an E-DCH MAC-d flow in the E-DCH MAC-d Flows Information TDD IE, the Node B shall use this information for the related resource allocation operation.]

- [TDD - If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type IE in the E-DCH MAC-d Flows Information TDD IE is set to "Non-scheduled" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants are configured for that E-DCH MAC-d flow and shall use the information within the [3.84Mcps - E-DCH Non-scheduled Grant Information TDD IE] [7.68Mcps - E-DCH Non-scheduled Grant Information 7.68Mcps TDD IE], if included, for the related resource allocation operation.]

- [TDD - If in the RADIO LINK SETUP REQUEST message the E-DCH Grant Type IE in the E-DCH MAC-d Flows Information TDD IE is set to "Scheduled" the Node B shall assume that it may issue scheduled grants for the concerned E-DCH MAC-d flow.]

- [TDD - If the RADIO LINK SETUP REQUEST message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows Information TDD IE, then the Node B shall use this information to optimise MAC-e scheduling decisions for the related queue.]

- [1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the MAC-es Maximum Bit Rate LCR IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows Information TDD IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [TDD - If the RADIO LINK SETUP REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information TDD IE in the E-DCH Information IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels [24] and MAC [32].]

- [3.84Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the E-DCH TDD Maximum Bitrate IE in the E-DCH TDD Information IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the E-DCH Physical Layer Category LCR IE or Extended E-DCH Physical Layer Category LCR IE in the E-DCH TDD Information LCR IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [7.68Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the E-DCH TDD Maximum Bitrate 7.68Mcps IE in the E-DCH TDD Information 7.68Mcps IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [TDD - If the RADIO LINK SETUP REQUEST message includes the E-DCH Processing Overload Level IE in the [3.84Mcps TDD - E-DCH TDD Information IE] [7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE][1.28Mcps TDD - E-DCH TDD Information LCR IE], then if the Node B could not decode the E-PUCH for the last consecutive number of TTIs, indicated in the E-DCH...
Processing Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]

- [TDD - If the RADIO LINK SETUP REQUEST message includes the E-DCH Power Offset for Scheduling Info IE in the [3.84Mcps TDD - E-DCH TDD Information IE] [1.28Mcps TDD - E-DCH TDD Information LCR IE] [7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE], then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

- [1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the Maximum Number of Retransmission for Scheduling Info LCR IE and the E-DCH Retransmission timer for Scheduling Info LCR IE in the E-DCH TDD Information LCR IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

- [3.84Mcps TDD and 7.68Mcps TDD - The Node B shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s), [1.28Mcps - E-HICHs] assigned in the E-DCH Information Response IE in the RADIO LINK SETUP RESPONSE message.]

Physical Channels Handling:

[FDD - Compressed Mode]:

[FDD - If the RADIO LINK SETUP REQUEST message includes the Transmission Gap Pattern Sequence Information IE, the Node B shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or the Node B Communication Context is deleted.]

[FDD - If the Downlink Compressed Mode Method IE in one or more Transmission Gap Pattern Sequence is set to “SF/2” in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the Transmission Gap Pattern Sequence Code Information IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the Transmission Gap Pattern Sequence Information IE and the Active Pattern Sequence Information IE, the Node B shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received CM Configuration Change CFN refers to the latest passed CFN with that value The Node B shall treat the received TGCFN IE as follows:]  

- [FDD - If any received TGCFN IE has the same value as the received CM Configuration Change CFN IE, the Node B shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - If any received TGCFN IE does not have the same value as the received CM Configuration Change CFN IE but the first CFN after the CM Configuration Change CFN with a value equal to the TGCFN IE has already passed, the Node B shall consider the concerned Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the Active Pattern Sequence Information IE, the Node B shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the TGCFN IE for the Transmission Gap Pattern Sequence.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the Transmission Gap Pattern Sequence Information IE and the Active Pattern Sequence Information IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink, the Node B shall not transmit the F-DPCH during the downlink transmission gaps according to [7]. But in all slots outside of the downlink transmission gaps the NodeB shall transmit the F-DPCH with the normal scrambling code and the assigned slot format, regardless of the configured downlink compressed mode method information and of the transmission gap pattern sequence code information, if existing.]

[FDD - DL Code Information]:

[FDD - When more than one DL DPDCH is assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When p number of DL DPDCHs are assigned to each RL, the
first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "PhCH number 1", the second to "PhCH number 2", and so on until the \( p \)th to "PhCH number \( p \)."

**[TDD - PDSCH RL ID]:**

[TDD - If the \( \text{PDSCH RL ID} \) IE is included in RADIO LINK SETUP REQUEST message, the Node B shall use the PDSCH RL ID as an identifier for the PDSCH and/or PUSCH in this radio link.]

**[FDD - Phase Reference Handling]:**

[FDD - If the RADIO LINK SETUP REQUEST message includes the \( \text{Primary CPICH Usage For Channel Estimation} \) IE and has the value "Primary CPICH shall not be used", the Node B shall assume that the UE is not using the Primary CPICH for channel estimation. If the RADIO LINK SETUP REQUEST message does not include the \( \text{Primary CPICH Usage For Channel Estimation} \) IE or includes the \( \text{Primary CPICH Usage For Channel Estimation} \) IE and has the value "Primary CPICH may be used", the Node B shall assume that the UE may use the Primary CPICH for channel estimation.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the \( \text{Secondary CPICH Information} \) IE, the Node B shall assume that the UE may use the Secondary CPICH indicated by the \( \text{Common Physical Channel ID} \) IE for channel estimation.]

**General:**

[FDD - If the \( \text{Propagation Delay} \) IE and optionally the \( \text{Extended Propagation Delay} \) IE are included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD - The \( \text{UL SIR Target} \) IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[1.28Mcps TDD - The \( \text{UL SIR Target} \) IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control according [19] and [21].]

[FDD - If the received \( \text{Limited Power Increase} \) IE is set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control.]

[1.28Mcps TDD - If the \( \text{UL CCTrCH Information} \) IE includes the \( \text{TDD TPC UL Step Size} \) IE, the Node B shall configure the uplink TPC step size according to the parameters given in the message.]

[1.28 Mcps TDD - The Node B shall configure the HS-SCCH TPC step size to the same value as the \( \text{TDD TPC DL Step Size} \) IE of the lowest numbered DL CCTrCH whose \( \text{DL CCTrCH Information} \) IE includes the \( \text{TDD TPC DL Step Size} \) IE.]

[1.28 Mcps TDD - If no \( \text{TDD TPC DL Step Size} \) IE is included in the \( \text{DL CCTrCH Information} \) IE, the Node B shall use the \( \text{E-AGCH TPC step size} \) IE in the \( \text{E-PCH Information LCR} \) IE in the \( \text{E-DCH Information} \) 1.28Mcps IE for HS-SCCH inner loop power control related operation.]

[1.28Mcps TDD - If the \( \text{UL Timeslot Information LCR} \) IE includes the \( \text{PLCCH Information} \) IE, the Node B shall transmit TPC /SS bits on a PLCCH according to the parameters given in the message.]

**[FDD - DPCH Handling]:**

[FDD - If the \( \text{UL DPDCH Indicator For E-DCH Operation} \) IE is set to "UL DPDCH not present", the \( \text{Min UL Channelisation Code Length} \) IE, the \( \text{Puncture Limit} \) IE and the \( \text{TFCS} \) IE within the \( \text{UL DPCH Information} \) IE shall be ignored and no UL DPDCH resources shall be allocated.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the \( \text{DL DPCH Information} \) IE, then the Node B shall configure the concerned Node B Communication Context to use DPCH in the downlink, i.e. with a DL DPCCH and a DL DPDCH.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the \( \text{F-DPCH Information} \) IE, then the Node B shall configure the concerned Node B Communication Context to use F-DPCH in the downlink, i.e. with transmission of only the TPC field.]

**[FDD - Continuous Packet Connectivity Handling]:**
[FDD - If the RADIO LINK SETUP REQUEST message includes the Continuous Packet Connectivity DTX-DRX Information IE, then:]

- [FDD - The Node B shall configure the concerned Node B Communication Context for DTX operation according to [10].]

- [FDD - If DRX Information IE is included in the Continuous Packet Connectivity DTX-DRX Information IE, then the Node B shall configure the concerned Node B Communication Context for DRX operation according to [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the Continuous Packet Connectivity HS-SCCH less Information IE, then:]

- [FDD - The Node B shall configure the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE for Continuous Packet Connectivity HS-SCCH less operation according to [10].]

- [FDD - The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the Continuous Packet Connectivity HS-SCCH less Information Response IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD - If at least one HS-PDSCH Second Code Support IE is set to "True", then the Node B shall include HS-PDSCH Second Code Index IE in the RADIO LINK SETUP RESPONSE message.]

**[1.28 Mcps TDD - Continuous Packet Connectivity Handling]:**

[1.28 Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the Continuous Packet Connectivity DRX Information LCR IE, then the Node B shall take account into these parameters to decide the DRX operation related parameters and configure the concerned Node B Communication Context for DRX operation according to [21] and include the parameter(s) in the Continuous Packet Connectivity DRX Information Response LCR IE in the RADIO LINK SETUP RESPONSE message.]

[1.28 Mcps TDD - If the Inactivity Threshold for UE DRX Cycle Ext IE is included in the Continuous Packet Connectivity DRX Information LCR IE, then the NodeB may use this value to determine the Inactivity Threshold for UE DRX Cycle according to [21].]

[1.28 Mcps TDD - If the Enabling Delay Ext IE is included in the Continuous Packet Connectivity DRX Information LCR IE, then the Node B may use this value to determine the beginning of uplink transmission in the new configuration according to [21].]

[1.28 Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the HS-DSCH Semi-Persistent scheduling Information LCR IE, then:]

- [1.28 Mcps TDD - The Node B shall configure the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE for HS-DSCH Semi-Persistent scheduling operation according to [21].]

- [1.28 Mcps TDD - The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the HS-DSCH Semi-Persistent scheduling Information Response LCR IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28 Mcps TDD - If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the Node B shall include Allcoated HS-PDSCH Semi-persistent resource IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28 Mcps TDD – The Node B shall include the Buffer Size for HS-DSCH Semi-Persistent scheduling IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28 Mcps TDD – The Node B shall include the Number of Processes for HS-DSCH Semi-Persistent scheduling IE in the RADIO LINK SETUP RESPONSE message.]

[1.28 Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the E-DCH Semi-Persistent scheduling Information LCR IE, then:]

- [1.28 Mcps TDD - The Node B shall configure the Serving E-DCH Radio Link indicated by the E-DCH Serving RL IE for E-DCH Semi-Persistent scheduling operation according to [21].]
Radio Link Handling:

[FDD - Transmit Diversity]:

[FDD - When the Diversity Mode IE is set to "STTD"or "Closedloop mode1", the Node B shall activate/deactivate the Transmit Diversity for each Radio Link in accordance with the Transmit Diversity Indication IE]

[FDD - If the Diversity Mode IE is included in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Setup IE in the RADIO LINK SETUP REQUEST message, the Node B shall apply cell specific transmit diversity configuration and if the Diversity Mode IE is not set to "None" the Node B shall activate/deactivate the Transmit Diversity for the secondary serving HS-DSCH Radio Link in accordance with the Transmit Diversity Indicator IE in the HS-DSCH FDD Secondary Serving Information IE.]

DL Power Control:

[FDD - The Node B shall start any DL transmission using the initial DL power specified in the message on each DL DPCH or on the F-DPCH of the RL until either UL synchronisation on the Uu interface is achieved for the RLS or Power Balancing is activated. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. [10], subclause 5.2.1.2) and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. If the Node B Communication Context is configured to use DPCH in the downlink, during compressed mode, the $\delta P_{curr}$, as described in ref. [10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[FDD - If the DPC Mode IE is present in the RADIO LINK SETUP REQUEST message, the Node B shall apply the DPC mode indicated in the message and be prepared that the DPC mode may be changed during the lifetime of the RL. If the DPC Mode IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

[3.84 Mcps TDD and 7.68Mcps TDD - The Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the CCTrCH Initial DL Transmission Power IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the Initial DL Transmission Power IE included in the RL Information IE. The Node B shall start any DL transmission on each DCH type CCTrCH using the initial CCTrCH DL power, as determined above, on each DL DPCH and on each Time Slot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref. [21], subclause 4.2.3.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.]

[3.84 Mcps TDD and 7.68Mcps TDD - The Node B shall determine the maximum DL power for each DCH type CCTrCH by the following rule: If the CCTrCH Maximum DL Transmission Power IE is included for that CCTrCH, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the Maximum DL Power IE included in the RL Information IE.]

[3.84 Mcps TDD and 7.68Mcps TDD - The Node B shall determine the minimum DL power for each DCH type CCTrCH by the following rule: If the CCTrCH Minimum DL Transmission Power IE is included for that CCTrCH, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the Minimum DL Power IE included in the RL Information IE.]

[3.84 Mcps TDD and 7.68Mcps TDD - The initial power, maximum power, and minimum power for DSCH type CCTrCH shall be determined as follows:

- If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol.

1.28 Mcps TDD - The Node B shall determine the initial DL power for each timeslot within the DCH type CCTrCH by the following rule: If the Initial DL Transmission Power IE is included in the DL Timeslot Information LCR IE, then the Node B shall use that power for the Initial DL Power and ignore the DL Time Slot ISCP info LCR IE, otherwise the initial DL Power is the Initial DL Transmission Power IE included in the RL Information IE and if DL Time Slot ISCP info LCR IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall start any DL transmission on each timeslot within each DCH type CCTrCH using the initial DL power, as determined above, on each DL DPCH and on each timeslot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.

1.28 Mcps TDD - The Node B shall determine the maximum DL power for each timeslot within the DCH type CCTrCH by the following rule: If the Maximum DL Power IE is included in the DL Timeslot Information LCR IE, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the Maximum DL Power IE included in the RL Information IE.

1.28 Mcps TDD - The Node B shall determine the minimum DL power for each timeslot within the DCH type CCTrCH by the following rule: If the Minimum DL Power IE is included in the DL Timeslot Information LCR IE, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the Minimum DL Power IE included in the RL Information IE.

1.28 Mcps TDD - The Node B shall determine the initial power for each timeslot within the DSCH type CCTrCH by the following rule: If both the CCTrCH Initial DL Transmission Power IE, included in the DL CCTrCH Information IE, and the DL Time Slot ISCP Info LCR IE, included in the RL Information IE, are included then the Node B shall use that power for the PDSCH and ignore the Initial DL Transmission Power IE included in the RL Information IE, otherwise the initial DL Power is the Initial DL Transmission Power IE included in the RL Information IE and if DL Time Slot ISCP info LCR IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall start any DL transmission on each timeslot within each DSCH type CCTrCH using the initial DL power, as determined above, on each DL PDSCH and on each timeslot of the CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message.

1.28 Mcps TDD - The Node B shall determine the maximum DL power for each timeslot within the DSCH type CCTrCH by the following rule: If the CCTrCH Maximum DL Transmission Power IE, included in the DL CCTrCH Information IE, is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the Maximum DL Power IE included in the RL Information IE.

1.28 Mcps TDD - The Node B shall determine the minimum DL power for each timeslot within the DSCH type CCTrCH by the following rule: If the CCTrCH Minimum DL Transmission Power IE, included in the DL CCTrCH Information IE, is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the Minimum DL Power IE included in the RL Information IE.

3.84 Mcps TDD and 7.68 Mcps TDD - If the DL Time Slot ISCP Info IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.
[FDD - If the received Inner Loop DL PC Status IE is set to "Active", the Node B shall activate the inner loop DL power control for all RLs. If Inner Loop DL PC Status IE is set to "Inactive", the Node B shall deactivate the inner loop DL power control for all RLs according to ref. [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the DL Power Balancing Information IE and the Power Adjustment Type IE is set to "Common" or "Individual", the Node B shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported, according to subclause 8.3.7, using the DL Power Balancing Information IE. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. $P_{init}$ shall be set to the power level indicated by the Initial DL Transmission Power IE.]

[FDD - If activation of power balancing by the RADIO LINK SETUP REQUEST message is supported by the Node B, the Node B shall include the DL Power Balancing Activation Indicator IE in the RL Information Response IE in the RADIO LINK SETUP RESPONSE message.]

[1.28Mcps TDD - Uplink Synchronisation Parameters LCR]:

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message contains the Uplink Synchronisation Parameters LCR IE, the Node B shall use the indicated values of Uplink Synchronisation Stepsize IE and Uplink Synchronisation Frequency IE when evaluating the timing of the UL synchronisation.]

[1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - If the Power Control GAP IE is included in the RADIO LINK SETUP REQUEST message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to the [21].]

[1.28Mcps TDD - E-UTRAN Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the Idle Interval Information IE, if supported, the Node B shall use the value for E-UTRAN Inter-RAT measurement according to the [18].]

[1.28Mcps TDD - HS-DSCH-RNTI for FACH:]

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the HS-DSCH-RNTI for FACH IE, if supported, the Node B shall store this information and include the E-RNTI for FACH IE in the RADIO LINK SETUP RESPONSE message.]

[1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK SETUP REQUEST message includes the Measurement occasion pattern sequence parameters IE in the DCH Measurement Occasion Information IE, if HS-SCCH(s), E-AGCH(s) or HS-PDSCH is/are configured on TS0, the Node B shall store the information about the Measurement occasion pattern sequences and use the value(s) to calculate the Inter-frequency/Inter-RAT measurement occasion according to [18].]

[FDD – HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]

[FDD – If the RADIO LINK SETUP REQUEST message includes the HS-DSCH Preconfiguration Setup IE in the RL Information IE for a Radio Link not indicated by the HS-PDSCH RL ID IE the Node B shall if supported preconfigure the indicated cells for Enhanced HS Serving Cell Change according to [49]: ]

- [FDD – The Node B shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the C-ID IE part of the RL Information IE in the RADIO LINK SETUP REQUEST message. The list of secondary serving HS-DSCH cells is designated by the list of C-IDs in the HS-DSCH Preconfiguration Setup IE part of the RL Information IE in the RADIO LINK SETUP REQUEST message. ]

- [FDD – The number of HS-SCCH codes to preconfigure for each cell may be optionally specified: ]

  - [FDD – - by the Num Primary HS-SCCH Codes IE in the HS-DSCH Preconfiguration Setup IE, for the primary serving HS-DSCH cell]
- [FDD – - by the Num Secondary HS-SCCH Codes IE in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE for each of the secondary serving HS-DSCH cells]

- [FDD – If Num Primary HS-SCCH Codes IE or Num Secondary HS-SCCH Codes IE is not included in the message, the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in [10].]

- [FDD – The Node B shall return these codes in the Sets of HS-SCCH Codes IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE of the RADIO LINK SETUP RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK SETUP FAILURE message.]

- [FDD – The Node B shall use the first in the numbered list of the primary serving HS-DSCH cell’s HS-SCCH codes in the HS-SCCH Preconfigured Codes IE sent to the RNC to signal the Target Cell HS-SCCH Order defined in [18].]

- [FDD – The Node B shall include, in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK SETUP RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK SETUP FAILURE message, IEs according to the rules defined for HS-DSCH Setup and:]

- [FDD – - if HARQ Preamble Mode IE is included in the HS-DSCH Preconfiguration Setup IE the HARQ Preamble Mode Activation Indicator IE]

- [FDD – - if MIMO Activation Indicator IE is included in the HS-DSCH Preconfiguration Setup IE or in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE the MIMO N/M Ratio IE]

- [FDD – - if HS-DSCH MAC-d PDU Size Format IE is included in the HS-DSCH Preconfiguration Setup IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used in the preconfigured configuration the HS-DSCH TB Size Table Indicator IE for each preconfigured cell]

- [FDD – - if Sixtyfour QAM Usage Allowed Indicator is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell]

- [FDD – - if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE]

- [FDD – - if the UE with enhanced HS-SCCH support indicator IE is included in the HS-DSCH Preconfiguration Setup IE, then the Node B shall store this information in the preconfigured configuration.]

- [FDD – - if the UE Support Indicator Extension IE is included in the HS-DSCH Preconfiguration Setup IE, then the Node B may store this information in the preconfigured configuration.]

- [FDD – The Node B shall include in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK SETUP RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK SETUP FAILURE message the E-DCH FDD DL Control Channel Information containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows:]

- [FDD – - The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE.]

- [FDD – -The Node B may configure for the preconfigured configuration the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the serving E-DCH RL and include these values in the E-DCH FDD DL Control Channel Information IE.]

- [FDD – -If the HS-DSCH Preconfiguration Setup IE includes the E-DCH Indicator IE for a secondary cell, the Node B shall include in the Additional E-DCH Preconfiguration Information IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK SETUP RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK SETUP FAILURE.
message the *E-DCH FDD DL Control Channel Information* containing the preconfigured configuration of the Additional E-DCH serving cell, corresponding to the cell indicated with the *E-DCH Indicator* IE, according to the rules defined for Serving Additional E-DCH Radio Link Change as follows:

- [FDD – The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the *E-DCH FDD DL Control Channel Information* IE.]

- [FDD – The Node B may configure for the preconfigured configuration the *Serving Grant Value* IE and *Primary/Secondary Grant Selector* IE for the initial grant for the serving Additional E-DCH RL and include these values in the *E-DCH FDD DL Control Channel Information* IE.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Non-Serving RL Preconfiguration Setup* IE in the *RL Information* IE and:]

- [FDD – if the choice of new Serving RL is "New Serving RL in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information* A IE and/or *New non-serving RL E-DCH FDD DL Control Channel Information* B IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK SETUP RESPONSE message.]

- [FDD – if the choice of new Serving RL is "New Serving RL Not in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information* C IE in the *Non-Serving RL Preconfiguration Info* IE for the RL in the RADIO LINK SETUP RESPONSE message.]

- [FDD – if the choice of new Serving RL is "New Serving RL in the Node B or New Serving RL Not in the Node B", the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information* A IE, the *New non-serving RL E-DCH FDD DL Control Channel Information* B IE and/or the *New non-serving RL E-DCH FDD DL Control Channel Information* C IE for the RL in the *Non-Serving RL Preconfiguration Info* IE in the RADIO LINK SETUP RESPONSE message.]

- [FDD – if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the Node B may include the *New non-serving RL E-DCH FDD DL Control Channel Information* A IE, the *New non-serving RL E-DCH FDD DL Control Channel Information* B IE and/or the *New non-serving RL E-DCH FDD DL Control Channel Information* C IE according to the choice of new Serving RL in Additional E-DCH *New non-serving RL E-DCH FDD DL Control Channel Information* IE for the additional non-serving E-DCH RL in the *Non-Serving RL Preconfiguration Info* IE in the RADIO LINK SETUP RESPONSE message.]

**General:**

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

The Node B shall start reception on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Synchronisation Indicator* IE, set to "Timing Maintained Synchronisation", the Node B shall use synchronisation procedure B according to subclause 4.3.2.4 in [10].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the Node B may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the Node B shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *F-DPCH Slot Format* IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to [7].]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *E-RNTI* IE in the *RL Information* IE, the Node B shall use the information to detect the information related to the E-RNTI which is configured in the Node B when the UE was in Cell_FACH state.]
[FDD - Radio Link Set Handling]:

[FDD - The First RLS Indicator IE indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The First RLS Indicator IE shall be used by the Node B together with the value of the DL TPC Pattern 01 Count IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the RL Set ID IE included in the RADIO LINK SETUP RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH related information for RLs in different RL Sets shall not be common.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the RL Set ID IE included in the RADIO LINK SETUP RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH information for all RLs in a RL Set shall be common.]

[FDD - The UL out-of-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the maximum value of the parameters N_OUTSYNC_IND and T_RL_FAILURE that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set.]

[FDD - For each E-DCH RL which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the E-DCH RL Set ID IE in the RADIO LINK SETUP RESPONSE message. The value of the E-DCH RL Set ID IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

Response Message:

If the RLs are successfully established, the Node B shall and respond with a RADIO LINK SETUP RESPONSE message.

After sending the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation on the Uu interface.

For each RL for which the Delayed Activation IE is not included in the RADIO LINK SETUP REQUEST message, the Node B shall:

- [FDD - start transmission on the DL DPDCH(s) of the new RL as specified in [16].]
- [TDD - start transmission on the new RL immediately as specified in [16].]

For each RL for which the Delayed Activation IE is included in the RADIO LINK SETUP REQUEST message, the Node B shall:

- if the Delayed Activation IE indicates "Separate Indication":
  - not start any DL transmission for the concerned RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
  - [FDD - start transmission on the DL DPDCH(s) of the new RL as specified in [16], however never before the CFN indicated in the Activation CFN IE.]
  - [TDD - start transmission on the new RL at the CFN indicated in the Activation CFN IE as specified in [16].]
8.2.17.3 Unsuccessful Operation

![Figure 25: Radio Link Setup procedure, Unsuccessful Operation](image)

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the Cause IE.

[FDD - If some radio links were established successfully, the Node B shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message. In this case, the Node B shall include the Communication Control Port Id IE in the RADIO LINK SETUP FAILURE message.]

[FDD - If the RL identified by the HS-PDSCH RL ID IE is a radio link in the Node B and this RL is successfully established, then the Node B shall include the HS-DSCH FDD Information Response IE in the RADIO LINK SETUP FAILURE message.]

[FDD - If the RL identified by the HS-PDSCH RL ID IE in the Additional HS Cell Information RL Setup IE is a radio link in the Node B and this RL is successfully established, then the Node B shall include the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK SETUP FAILURE message. If the establishment of the RL identified by the HS-PDSCH RL ID IE in the Additional HS Cell Information RL Setup IE, i.e. secondary serving HS-DSCH Radio Link is unsuccessful but the establishment of the RL identified by the HS-PDSCH RL ID IE for the serving HS-DSCH Radio Link is successful, then the Node B shall indicate the unsuccessful secondary serving HS-DSCH Radio Link in the Unsuccessful RL Information Response IE in the RADIO LINK SETUP FAILURE message by setting the RL ID IE to the same value as the unsuccessful HS-PDSCH RL ID IE in the Additional HS Cell Information RL Setup IE.]

[FDD - If the RL identified by the E-DCH Additional RL ID IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE is a radio link in the Node B and this RL is successfully established, then the Node B shall include the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message. If the establishment of the RL identified by the E-DCH Additional RL ID IE is unsuccessful, then the Node B shall indicate the unsuccessful setup of the Additional E-DCH Radio Link in the Unsuccessful RL Information Response IE in the RADIO LINK SETUP FAILURE message by setting the RL ID IE to the same value as the unsuccessful E-DCH Additional RL ID IE in the Additional E-DCH Cell Information Setup IE.]

Typical cause values are as follows:

**Radio Network Layer Cause:**
- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- Number of DL codes not supported
- Number of UL codes not supported
- UL SF not supported
- DL SF not supported
- Dedicated Transport Channel Type not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- [FDD - DPC mode change not supported]
- Delayed Activation not supported
- F-DPCH not supported
- [FDD - Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD - Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD - MIMO not available]
- E-DCH MAC-d PDU Size Format not available
- [FDD - SixtyfourQAM DL and MIMO Combined not available]
- [FDD - Multi Cell operation not available.]
- [1.28Mcps TDD- MIMO not available]
- [1.28Mcps TDD - SixtyfourQAM DL and MIMO Combined not available]
- [FDD - TX diversity for MIMO UE on DL Control Channels not available]
- [FDD – Single Stream MIMO not available]
- [FDD - Multi Cell operation with MIMO not available]
- [FDD - Multi Cell operation with Single Stream MIMO not available]
- [FDD - Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available]
- [FDD - Multi Cell E-DCH operation not available]

**Transport Layer Cause:**
- Transport Resources Unavailable

**Miscellaneous Cause:**
- O&M Intervention
- Control processing overload
- HW failure

### 8.2.17.4 Abnormal Conditions

[FDD - If the RADIO LINK SETUP REQUEST message contains the Active Pattern Sequence Information IE, but the Transmission Gap Pattern Sequence Information IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If more than one DCH of a set of co-ordinated DCHs has the QE-Selector IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the QE-Selector IE set to "selected"], the Node B shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes a DCH Information IE with multiple DCH Specific Info IEs, and if the DCHs in the DCH Information IE do not have the same Transmission Time Interval IE in the Semi-static Transport Format Information IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.
If the RADIO LINK SETUP REQUEST message includes the Transport Layer Address IE and the Binding ID IE in the RL Specific DCH Information IE or RL Specific E-DCH Information IE included in the RL Information IE for a specific RL and the Diversity Control Field IE is set to "Must" [FDD - or the RL is combined with an E-DCH RL previously listed in the RADIO LINK SETUP RESPONSE message], the Node B shall regard the Radio Link Setup procedure as failed and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the Transport Layer Address IE and the Binding ID IE in the RL Specific DCH Information IE in the RL Information IE for a specific RL and the Diversity Control Field IE is set to "Must Not", the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the Transport Layer Address IE and the Binding ID IE in the RL Specific DCH Information IE in the RL Information IE for a specific RL and the Diversity Control Field IE is set to "May", the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the Transport Layer Address IE and the Binding ID IE for an HS-DSCH MAC-d Flow in the HS-DSCH MAC-d Flows Information IE, the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.

[TDD - If ALCAP is not used, if the RADIO LINK SETUP REQUEST message does not include the Transport Layer Address IE and the Binding ID IE for a DSCH in the DSCH TDD Information IE and/or for an USCH in the USCH Information IE, the Node B shall reject the Radio Link Setup procedure and respond with the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message contains the Transport Layer Address IE or the Binding ID IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes an HS-PDSCH RL-ID IE for a serving HS-DSCH not referring to one of the radio links to be established, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message contains the HS-DSCH Information IE and if the Priority Queues associated with the same HS-DSCH MAC-d Flow ID IE have the same Scheduling Priority Indicator IE value, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, and the HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE has the value "Indexed MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, and the HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE has the value "Flexible MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[TDD - If the RADIO LINK SETUP REQUEST message contains, for at least one logical channel, the Maximum MAC-d PDU Size Extended IE in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE and there exist a logical channel for which the Maximum MAC-d PDU Size Extended IE in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE is not present, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[TDD - If the RADIO LINK SETUP REQUEST message contains, for at least one logical channel, the Maximum MAC-d PDU Size Extended IE in the E-DCH MAC-d Flows Information TDD IE in the E-DCH Information IE, and there exist a logical channel for which the Maximum MAC-d PDU Size Extended IE in the E-DCH MAC-d Flows Information TDD IE in the E-DCH Information IE is not present, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]
[FDD - If the RADIO LINK SETUP REQUEST message includes the Synchronisation Indicator IE, set to "Timing Maintained Synchronisation", and if the First RLS indicator IE is set to "not first RLS", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the HS-DSCH Information IE and if the Measurement Power Offset IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the F-DPCH Information IE and the DL DPCH Information IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the Active Pattern Sequence Information IE, which activates a transmission gap pattern sequence with an SF/2 downlink compressed mode method, and if the concerned NodeB Communication Context is configured to use DPCH in downlink and the Transmission Gap Pattern Sequence Code Information is not available for any Radio Link, the NodeB shall reject the Radio Link Setup procedure using the RADIO LINK SETUP FAILURE message with the cause value 'Invalid CM Settings'.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the Primary CPICH Usage For Channel Estimation IE set to the value "Primary CPICH shall not be used" and doesn’t include the Secondary CPICH Information IE, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes one of the Not Used IEs, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the E-DCH RL Indication IE set to "E-DCH", but does not contain the E-DCH FDD Information IE, or if the message contains the E-DCH FDD Information IE, but does not contain the E-DCH RL Indication IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message contains the HS-PDSCH RL ID IE and the Serving E-DCH RL IE but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not configured to be in the same cell then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD - If the RADIO LINK SETUP REQUEST message contains the HS-PDSCH RL ID IE and the E-DPCH Information IE which includes the HS-DSCH Configured Indicator IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the E-DCH RL Indication IE set to "E-DCH", and if the HS-DSCH Information IE is included in the message, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the Serving Cell Change CFN IE, but neither the Serving E-DCH RL IE nor HS-DSCH Information IE is included, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the Transport Bearer Not Requested Indicator IE for a DCH, but does not contain the Unidirectional DCH indicator IE set to "Uplink DCH only" in the DCH Specific Info IE for the DCH, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[1.28Mcps TDD - For a multi-frequency cell, if the UARFCN IE is not included in the RADIO LINK SETUP REQUEST message, the Node B shall reject the procedure by sending the RADIO LINK SETUP FAILURE message.]

[1.28Mcps TDD - For the cell in which only one frequency is configured, if the UARFCN IE is included in the RADIO LINK SETUP REQUEST message, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the UL DPCH Information IE in the RADIO LINK SETUP REQUEST message contains the UL DPCCH Slot Format set to "4" but does not contain the F-DPCH Information IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the UL DPCH Information IE in the RADIO LINK SETUP REQUEST message contains the UL DPCCH Slot Format set to "0" or "2" and the Continuous Packet Connectivity DTX-DRX Information IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

ETSI
[FDD - If the **UL DPCH Information** IE in the RADIO LINK SETUP REQUEST message contains **Diversity Mode** IE set to "Closed loop mode 1" and **UL DPCCH Slot Format** not set to "2" or "3", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the **MIMO Activation Indicator** IE, **Sixtyfour QAM Usage Allowed Indicator** IE set to "Allowed", the the **Additional HS Cell Information RL Setup** IE and/or the **Single Stream MIMO Activation Indicator** IE, but does not contain the **HS-DSCH MAC-d PDU Size Format** IE set to "Flexible MAC-d PDU Size", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message contains the **Continuous Packet Connectivity DTX-DRX Information** IE but does not contain the **F-DPCH Information** IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message]

[FDD – If the RADIO LINK SETUP REQUEST message contains the **Serving E-DCH RL ID** IE but contains the **Transport Bearer Not Requested Indicator** IE, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the **Transport Bearer Not Requested Indicator** IE for a DCH for a specific RL and the specific RL is combined with RL which the transport bearer is configured to be established for the DCH, previously listed in the RADIO LINK SETUP RESPONSE message in the Node B, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the **Additional HS Cell Information RL Setup IE** and if the **HS-DSCH Information** IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes the **DL RLC PDU Size Format** IE for a Priority Queue in the **HS-DSCH MAC-d Flows Information** IE in the **HS-DSCH Information** IE set to 'Flexible RLC PDU Size', and the **HS-DSCH MAC-d PDU Size Format** IE in the **HS-DSCH Information** IE has the value "Indexed MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

If the RADIO LINK SETUP REQUEST message does not include the **Maximum MAC-d PDU Size Extended** IE for a Priority Queue in the **HS-DSCH MAC-d Flows Information** IE in the **HS-DSCH Information** IE, and the **DL RLC PDU Size Format** IE in the **HS-DSCH Information** IE has the value "Flexible RLC PDU Size", the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD - If the RADIO LINK SETUP REQUEST message contains a **MIMO Activation Indicator** IE and a **Single Stream MIMO Activation Indicator** IE in the **HS-DSCH FDD Information** IE or in the **HS-DSCH FDD Secondary Serving Information** IE in the **Additional HS Cell Information RL Setup** IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the **Additional HS Cell Information RL Setup** IE and the **Diversity Mode** IE not set to "None" but not the **Transmit Diversity Indicator** or contains the **Transmit Diversity Indicator** but not the **Diversity Mode** IE not set to "None", then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the **Additional E-DCH Cell Information RL Setup Req** IE and if the **E-DPCH Information** IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the **Additional E-DCH Cell Information RL Setup Req** IE and the **C-ID** IE is not included in the **Additional E-DCH RL Specific Information To Setup** IE in the **Additional E-DCH FDD Setup Information** IE in the **Additional E-DCH Cell Information Setup** IE, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD - If the RADIO LINK SETUP REQUEST message contains the **Additional E-DCH Cell Information RL Setup Req** IE and there exist a logical channel for which the **Maximum MAC-d PDU Size Extended** IE in the **E-DCH MAC-d Flows Information** IE in the **E-DCH FDD Information** IE is not present, the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]
8.2.18 Physical Shared Channel Reconfiguration

8.2.18.1 General

This procedure is used to assign HS-DSCH related resources to the Node B.

[TDD - This procedure is also used for handling PDSCH Sets and PUSCH Sets in the Node B, i.e.
- Adding new PDSCH Sets and/or PUSCH Sets,
- Modifying these, and
- Deleting them.]

This procedure is also used to assign E-DCH related resources to the Node B.

8.2.18.2 Successful Operation

The procedure is initiated with a PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall activate the new configuration at the head boundary of the SFN according to the parameters given in the message.

If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes an SFN IE, the Node B shall activate the new configuration at the head boundary of that specified SFN. If no SFN IE is included Node B shall activate the new configuration immediately.

E-DCH and HS-DSCH Resources:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH Total Power IE, the Node B shall not exceed this maximum transmission power on all HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH codes in the cell. If a value has never been set or if the value of the HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH Total Power IE is equal to or greater than the maximum transmission power of the cell the Node B may use all unused power for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH codes.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH And E-HICH Total Power IE in the HSDPA And E-DCH Cell Portion Information IE, the Node B shall not exceed this maximum transmission power on all HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH codes in the cell portion indicated by Cell Portion ID IE. If a value has never been set or if the value of the HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH And E-HICH Total Power IE for the cell portion is equal to or greater than the maximum transmission power of the cell portion, the Node B may use all unused power for HS-PDSCH, HS-SCCH and E-AGCH, E-RGCH and E-HICH codes.]

HS-DSCH Resources:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes HS-PDSCH And HS-SCCH Scrambling Code IE, the Node B shall use this as the scrambling code for all HS-PDSCHs and HS-SCCHs. If a value has never been set, the Node B shall use the primary scrambling code for all HS-PDSCH and HS-SCCH codes.]
[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes **HS-PDSCH FDD Code Information** IE, the Node B shall:

- if the **Number Of HS-PDSCH Codes** IE is set to "0", delete any existing HS-PDSCH resources from the cell.
- if the **Number Of HS-PDSCH Codes** IE is set to any value other than "0" and HS-PDSCH resources are not currently configured in the cell, use this list as the range of codes for HS-PDSCH channels.
- if the **Number Of HS-PDSCH Codes** IE is set to any value other than "0" and HS-PDSCH resources are currently configured in the cell, replace the current range of codes with this new range of codes for HS-PDSCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes **HS-SCCH FDD Code Information** IE, the Node B shall:

- If the **HS-SCCH FDD Code Information** IE contains no codes, delete any existing HS-SCCH resources from the cell.
- If the **HS-SCCH FDD Code Information** IE contains one or more codes and HS-SCCH resources are not currently configured in the cell, use this list of codes as the list of codes for HS-SCCH channels.
- If the **HS-SCCH FDD Code Information** IE contains one or more codes and HS-SCCH resources are currently configured in the cell, replace the current list of codes with this new list of codes for HS-SCCH channels.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes **HS-PDSCH and HS-SCCH Total Power** IE [1.28 Mcps TDD – or **HS-PDSCH and HS-SCCH Total Power per CELL PORTION** IE in the **DL Timeslot and Code Information LCR per UARFCN** IE] for a particular timeslot, the Node B shall not exceed this maximum transmission power on all HS-PDSCH and HS-SCCH codes in that timeslot. If a value has never been set for that timeslot or if the value of the **HS-PDSCH and HS-SCCH Total Power** IE for that timeslot is equal to or greater than the maximum transmission power of the cell the Node B may use all unused power in that timeslot for HS-PDSCH and HS-SCCH codes.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes **HS-PDSCH TDD Information** IE, the Node B shall:

- If the **HS-PDSCH TDD Information** IE contains no [3.84 Mcps TDD - **DL Timeslot and Code Information** IE] [1.28 Mcps TDD - **DL Timeslot and Code Information LCR per UARFCN** IE] [7.68 Mcps TDD - **DL Timeslot and Code Information 7.68Mcps** IE], delete any existing HS-PDSCH resources from the cell.
- If the **HS-PDSCH TDD Information** IE contains [3.84 Mcps TDD - **DL Timeslot and Code Information** IE] [1.28 Mcps TDD - **DL Timeslot and Code Information LCR** IE] [7.68 Mcps TDD - **DL Timeslot and Code Information 7.68Mcps** IE] and HS-PDSCH resources are not currently configured in the cell, use this IE as the list of timeslots / codes for HS-PDSCH channels.
- If the **HS-PDSCH TDD Information** IE contains [3.84 Mcps TDD - **DL Timeslot and Code Information** IE] [1.28 Mcps TDD - **DL Timeslot and Code Information LCR** IE] [7.68 Mcps TDD - **DL Timeslot and Code Information 7.68Mcps** IE] and HS-PDSCH resources are currently configured in the cell, replace the current list of timeslots / codes with this new list of timeslots / codes for HS-PDSCH channels.
- [1.28 Mcps TDD - If the **HS-PDSCH TDD Information** IE contains any **DL Timeslot and Code Information LCR per UARFCN** IE and HS-PDSCH resources are not currently configured on the indicated frequency within the cell, use this IE as the list of frequency / timeslots / codes for HS-PDSCH channels on the frequency, the HSDPA resources on other frequency shall remain unchanged.]
- [1.28 Mcps TDD - If the **HS-PDSCH TDD Information** IE contains any **DL Timeslot and Code Information LCR per UARFCN** IE and HS-PDSCH resources are currently configured on the indicated frequency within the cell, the current list of frequency / timeslots / codes shall be replaced with this new list of frequency / timeslots / codes for HS-PDSCH channels on this frequency, the HSDPA resources on other frequency/frequencies shall remain unchanged.]
- [1.28 Mcps TDD - If the **DL Timeslot and Code Information LCR per UARFCN** IE contains no **DL Timeslot and Code Information LCR** IE but contains **UARFCN** IE, the existing HS-PDSCH resources on the frequency indicated by the **UARFCN** IE shall be deleted, the HSDPA resources on other frequency/frequencies shall remain unchanged.]
[**TDD** - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *Add to HS-SCCH Resource Pool* IE, the Node B shall add this resource to the HS-SCCH resource pool to be used to assign HS-SCCH sets.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes any of [3.84Mcps TDD - TDD Channelisation Code IE, Midamble Shift and Burst Type IE, Time Slot IE], [1.28Mcps TDD - First TDD Channelisation Code IE, Second TDD Channelisation Code IE, Midamble Shift LCR IE, Time Slot LCR IE, TDD Channelisation Code IE], [7.68Mcps TDD - TDD Channelisation Code 7.68Mcps IE, Midamble Shift and Burst Type 7.68Mcps IE, Time Slot IE], for either HS-SCCH or HS-SICH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes any *UARFCN* IEs related to HS-SCCH or HS-SICH channels, the Node B shall apply these configurations on the new frequency, otherwise the old frequency is still applicable.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes the *HS-SCCH Maximum Power* IE, the Node B shall apply this value for the specified HS-SCCH code otherwise the old value is still applicable.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify Non-HS-SCCH associated HS-SICH Resource Pool* IEs and includes any *UARFCN* IEs related to HS-SICH channel, the Node B shall add this resource to the non-HS-SCCH associated HS-SICH resource pool, otherwise the Node B shall add this resource to the non-HS-SCCH associated HS-SICH resource pool on the primary frequency.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Delete from HS-SCCH Resource Pool* IEs, the Node B shall delete these resources from the HS-SCCH resource pool.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Delete from Non-HS-SCCH associated HS-SICH Resource Pool* IEs, the Node B shall delete these resources from the non-HS-SCCH associated HS-SICH resource pool.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH And HS-SCCH Scrambling Code* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall use this as the scrambling code for all HS-PDSCHs and HS-SCCHs for the cell portion indicated by Cell Portion ID. If a value has never been set, the Node B shall use the primary scrambling code for all HS-PDSCH and HS-SCCH codes for the cell portion indicated by Cell Portion ID.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH FDD Code Information* IE in the *HSDPA And E-DCH Cell Portion Information* IE, the Node B shall:

- if the *Number Of HS-PDSCH Codes* IE is set to "0", delete any existing HS-PDSCH resources from the cell portion indicated by Cell Portion ID IE.]

- if the *Number Of HS-PDSCH Codes* IE is set to any value other than "0" and HS-PDSCH resources are not currently configured in the cell portion indicated by Cell Portion ID IE, use this list as the range of codes for HS-PDSCH channels.]
- if the *Number Of HS-PDSCH Codes* IE is set to any value other than "0" and HS-PDSCH resources are currently configured in the cell portion indicated by *Cell Portion ID* IE, replace the current range of codes with this new range of codes for HS-PDSCH channels.]

[FDD - if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-SCCH FDD Code Information* IE in the HSDPA And E-DCH Cell Portion Information IE, the Node B shall:

- If the *HS-SCCH FDD Code Information* IE contains no codes, delete any existing HS-SCCH resources from the cell portion indicated by *Cell Portion ID* IE.
- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are not currently configured in the cell portion indicated by *Cell Portion ID* IE, use this list of codes as the list of codes for HS-SCCH channels.
- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are currently configured in the cell portion indicated by *Cell Portion ID* IE, replace the current list of codes with this new list of codes for HS-SCCH channels.]

[FDD - Enhanced Cell_FACH Operation]:

[FDD - if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *HS-DSCH Common System Information* IE, then the Node B shall:

- If the HS-DSCH Common Information IE is included, then the Node B shall apply the parameters to the enhanced FACH in new configuration:
  - If the *Discard Timer* IE is included in the *Priority Queue Information for Enhanced FACH* IE, then the Node B shall use this information to discard out-of-date MAC-ehs SDUs from the related HSDPA Priority Queue.
  - If the *FACH Measurement Occasion Cycle Length Coefficient* IE is included in the *HS-DSCH Common Information* IE, then the Node B shall use this information for MAC-hs scheduling decisions.
  - The Node B shall allocate HS-SCCH codes and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH Common System Information Response* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.
- The Node B shall include the *HARQ Memory Partitioning* IE in the *HS-DSCH Common System Information Response* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.
- If the Common MAC Flow Specific Information IE is included, then the Node B shall apply the parameters to the enhanced FACH in new configuration:
  - If the common MAC flow indicated by the Common MAC Flow ID exists in the NodeB, then the NodeB shall apply the parameters to modify this common MAC flow; otherwise, the NodeB shall apply the parameters to newly establish the common MAC flow.
  - If the *Transport Layer Address* IE and *Binding ID* IE are included in the *Common MAC Flow Specific Information* IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned Common MAC flow or Common MAC flow being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.
  - If the *TNL QoS* IE is included and if ALCAP is not used, the *TNL QoS* IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.
- The Node B shall include in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message the *Binding ID* IE and *Transport Layer Address* IE for establishment of transport bearer for every Common MAC flow being established.
- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the *HS-DSCH Common System Information Response* IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message for every Common MAC flow being established, if the Node B allows the CRNC to start transmission of MAC-c PDUs before the Node B has allocated capacity on user plane as described in [24].
- If the *Common MAC Flow Priority Queue Information* IE is included in the *Common MAC Flow Specific Information* IE, the Node B shall use the information for configuring HSDPA Priority Queues.]
[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common MAC Flows To Delete IEs, then the Node B shall use this information to delete the indicated Common MAC flows. When a Common MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common MAC Flows To Delete IE requesting the deletion of all remaining Common MAC flows, then the Node B shall delete the HS-DSCH common system configuration and release the resources for enhanced FACH.]

[FDD - Enhanced Cell/URA_PCH Operation]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common MAC Flows To Delete IEs, then the Node B shall use this information to delete the indicated Common MAC flows. When a Common MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common MAC Flows To Delete IE requesting the deletion of all remaining Common MAC flows, then the Node B shall delete the HS-DSCH common system configuration and release the resources for enhanced FACH.]

[1.28Mcps TDD - Enhanced Cell_FACH Operation]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Paging MAC Flows To Delete IEs, then the Node B shall use this information to delete the indicated Paging MAC flows. When a Paging MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Paging MAC Flows To Delete IE requesting the deletion of all remaining Paging MAC flows, then the Node B shall delete the HS-DSCH paging system configuration and release the resources for enhanced PCH.]
- The Node B shall use the value of the E-AGCH TPC Step Size IE contained in the Common E-PUCH Information LCR IE in the Common E-DCH System Information LCR IE for HS-SCCH inner loop power control.

- If the Common MAC Flow Specific Information LCR IE is included, then the Node B shall apply the parameters to the enhanced FACH in new configuration:
  - If the common MAC flow indicated by the Common MAC Flow ID LCR IE exists in the NodeB, then the NodeB shall apply the parameters to modify this common MAC flow; otherwise, the NodeB shall apply the parameters to newly establish the common MAC flow.
  - If the Transport Layer Address IE and Binding ID IE are included in the Common MAC Flow Specific Information LCR IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned Common MAC flow or Common MAC flow being modified for which a new transport bearer was requested with the Transport Bearer Request Indicator IE.
  - If the TNL QoS IE is included and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.
  - The Node B shall include in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message the Binding ID IE and Transport Layer Address IE for establishment of transport bearer for every Common MAC flow being established.
  - The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the HS-DSCH Common System Information Response LCR IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message for every Common MAC flow being established, if the Node B allows the CRNC to start transmission of MAC-c PDUs before the Node B has allocated capacity on user plane as described in [24].
  - If the Common MAC Flow Priority Queue Information LCR IE is included in the Common MAC Flow Specific Information LCR IE, the Node B shall use the information for configuring HSDPA Priority Queues.

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common MAC Flows To Delete LCR IEs, then the Node B shall use this information to delete the indicated Common MAC flows. When a Common MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common MAC Flows To Delete LCR IE requesting the deletion of all remaining Common MAC flows, then the Node B shall delete the HS-DSCH common system configuration and release the resources for enhanced FACH.]

[1.28Mcps TDD - If the Power Control GAP for CELL_FACH IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, the Node B may use the value for the power control for HS-SCCH, HS-SICH and E-AGCH according to the [21].]

[1.28Mcps TDD - If the UL Synchronisation Parameters LCR IE is included in the Common E-DCH System Information LCR IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, the Node B shall use the indicated values of Uplink Synchronisation Step Size IE and Uplink Synchronisation Frequency IE when evaluating the timing of the UL synchronisation.]

[1.28Mcps TDD - If the Physical Channel ID for Common E-RNTI Requested Indicator IE in the Common E-DCH System Information LCR IE, if supported, the Node B shall included the Associated Physical Channel ID IE in the Common E-RNTI Information LCR IE in the Common E-DCH System Information Response LCR IE to indicate the E-RUCCCH associated with the related common E-RNTI group.]

[1.28Mcps TDD - Enhanced Cell/URA_PCH Operation]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the HS-DSCH Paging System Information LCR IE, then the Node B shall:
  - If the Paging MAC flow indicated by the Paging MAC Flow ID IE exists in the NodeB, then the NodeB shall apply the parameters to modify this Paging MAC flow; otherwise, the NodeB shall apply the parameters to newly establish the Paging MAC flow.]
- If the Transport Layer Address IE and Binding ID IE are included in the Paging MAC Flow Specific Information LCR IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned Paging MAC flow or Paging MAC flow being modified for which a new transport bearer was requested with the Transport Bearer Request Indicator IE.

- If the TNL QoS IE is included and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Paging MAC Flows To Delete LCR IEs, then the Node B shall use this information to delete the indicated Paging MAC flows. When a Paging MAC flow is deleted, all its associated Priority Queues shall also be removed. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Paging MAC Flows To Delete LCR IE requesting the deletion of all remaining Paging MAC flows, then the Node B shall delete the HS-DSCH paging system configuration and release the resources for enhanced PCH.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common E-DCH System Information LCR IE, and the Scheduling Priority Indicator IE is present in the Common E-DCH Logical Channel information IE in the Common E-DCH MAC-d Flow Specific Information LCR IE, the Node B may use this IE to do the related scheduling operation.

[FDD - E-DCH Resources]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE, the Node B shall use this as the scrambling code for all E-AGCHs, E-RGCHs and E-HICHs. If a value has never been set, the Node B shall use the primary scrambling code for all E-AGCH, E-RGCH and E-HICH codes.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-AGCH FDD Code Information IE, the Node B shall:]

- [FDD - If the E-AGCH FDD Code Information IE contains no codes, delete any existing E-AGCH resources from the cell.]

- [FDD - If the E-AGCH FDD Code Information IE contains one or more codes and E-AGCH resources are not currently configured in the cell, use this list of codes as the list of codes for E-AGCH channels.]

- [FDD - If the E-AGCH FDD Code Information IE contains one or more codes and E-AGCH resources are currently configured in the cell, replace the current list of codes with this new list of codes for E-AGCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-RGCH/E-HICH FDD Code Information IE, the Node B shall:]

- [FDD - If the E-RGCH/E-HICH FDD Code Information IE contains no codes, delete any existing E-RGCH/E-HICH resources from the cell.]

- [FDD - If the E-RGCH/E-HICH FDD Code Information IE contains one or more codes and E-RGCH/E-HICH resources are not currently configured in the cell, use this list of codes as the list of codes for E-RGCH/E-HICH channels.]

- [FDD - If the E-RGCH/E-HICH FDD Code Information IE contains one or more codes and E-RGCH/E-HICH resources are currently configured in the cell, replace the current list of codes with this new list of codes for E-RGCH/E-HICH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Maximum Target Received Total Wide Band Power IE, the Node B shall use this value to control E-DCH scheduling.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Reference Received Total Wide Band Power IE, the Node B may use this value to control E-DCH scheduling.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Target Non-serving E-DCH to Total E-DCH Power Ratio IE, the Node B shall store this value and use this value for E-DCH scheduling by controlling the ratio of received E-DCH wide band power from non-serving UEs to the total received E-DCH power.]
[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE in the HSDPA And E-DCH Cell Portion Information IE, the Node B shall use this as the scrambling code for all E-AGCHs, E-RGCHs and E-HICHs for the cell portion indicated by Cell Portion ID. If a value has never been set, the Node B shall use the primary scrambling code for all E-AGCH, E-RGCH and E-HICH codes for the cell portion indicated by Cell Portion ID.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-AGCH FDD Code Information IE in the HSDPA And E-DCH Cell Portion Information IE, the Node B shall:]  
- [FDD - If the E-AGCH FDD Code Information IE contains no codes, delete any existing E-AGCH resources from the cell portion indicated by Cell Portion ID IE.]  
- [FDD - If the E-AGCH FDD Code Information IE contains one or more codes and E-AGCH resources are not currently configured in the cell portion indicated by Cell Portion ID IE, use this list of codes as the list of codes for E-AGCH channels.]  
- [FDD - If the E-AGCH FDD Code Information IE contains one or more codes and E-AGCH resources are currently configured in the cell portion indicated by Cell Portion ID IE, replace the current list of codes with this new list of codes for E-AGCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-RGCH/E-HICH FDD Code Information IE in the HSDPA And E-DCH Cell Portion Information IE, the Node B shall:]  
- [FDD - If the E-RGCH/E-HICH FDD Code Information IE contains no codes, delete any existing E-RGCH/E-HICH resources from the cell portion indicated by Cell Portion ID IE.]  
- [FDD - If the E-RGCH/E-HICH FDD Code Information IE contains one or more codes and E-RGCH/E-HICH resources are not currently configured in the cell portion indicated by Cell Portion ID IE, use this list of codes as the list of codes for E-RGCH/E-HICH channels.]  
- [FDD - If the E-RGCH/E-HICH FDD Code Information IE contains one or more codes and E-RGCH/E-HICH resources are currently configured in the cell portion indicated by Cell Portion ID IE, replace the current list of codes with this new list of codes for E-RGCH/E-HICH channels.]

[TDD - E-DCH Resources]:

[3.84Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-PUCH Information IE, the Node B shall:]  
- If the E-PUCH Information IE contains no E-PUCH Timeslot Information IE, then the Node B shall delete any existing E-DCH resources from the cell.  
- If the E-PUCH Information IE contains E-PUCH Timeslot Information IE and E-DCH resources are not currently configured in the cell, use this IE as the list of timeslots for E-PUCH channels.  
- If the E-PUCH Information IE contains E-PUCH Timeslot Information IE and E-DCH resources are currently configured in the cell, replace the current list of timeslots with this new list of timeslots for E-PUCH channels.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-PUCH Information 1.28Mcps IE, the Node B shall:]  
- If the E-PUCH Information 1.28Mcps IE contains no E-PUCH Timeslot Information 1.28Mcps per UARFCN IE, then the Node B shall delete any existing E-DCH resources from the cell.  
- For a single-frequency cell, if the E-PUCH Information 1.28Mcps IE contains E-PUCH Timeslot Information 1.28Mcps per UARFCN IE and E-DCH resources are not currently configured in the cell, use this IE as the list of timeslots / codes for E-PUCH channels.  
- For a single-frequency cell, if the E-PUCH Information 1.28Mcps IE contains E-PUCH Timeslot Information 1.28Mcps per UARFCN IE and E-DCH resources are currently configured in the cell, replace the current list of timeslots / codes with this new list of timeslots / codes for E-PUCH channels.  
- For a multi-frequency cell, if the E-PUCH Information 1.28Mcps IE contains E-PUCH Timeslot Information 1.28Mcps per UARFCN IE and E-DCH resources are not currently configured on the indicated frequency in the cell, use this IE as the list of frequency / timeslots / codes for E-PUCH channels, the E-DCH resources on other frequency shall remain unchanged.
- For a multi-frequency cell, if the E-PUCH Information 1.28Mcps IE contains E-PUCH Timeslot Information 1.28Mcps per UARFCN IE and E-DCH resources are currently configured on the indicated frequency in the cell, replace the current list of frequency / timeslots / codes with this new list of timeslots / codes for E-PUCH channels, the E-DCH resources on other frequency shall remain unchanged.

- For a multi-frequency cell, if the E-PUCH Information 1.28Mcps IE contains E-PUCH Timeslot Information 1.28Mcps per UARFCN IE but only UARFCN IE is included, then the Node B shall delete the existing E-DCH resources on the frequency indicated by the UARFCN IE from the cell, the E-DCH resources on other frequency shall remain unchanged.

[7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-PUCH Information 7.68Mcps IE, the Node B shall:

- If the E-PUCH Information 7.68Mcps IE contains no E-PUCH Timeslot Information IE, then the Node B shall delete any existing E-DCH resources from the cell.

- If the E-PUCH Information 7.68Mcps IE contains E-PUCH Timeslot Information IE and E-DCH resources are not currently configured in the cell, use this IE as the list of timeslots for E-PUCCH channels.

- If the E-PUCH Information 7.68Mcps IE contains E-PUCH Timeslot Information IE and E-DCH resources are currently configured in the cell, replace the current list of timeslots with this new list of timeslots for E-PUCCH channels.

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any Modify E-AGCH Resource Pool IEs and includes any of TDD Channelisation Code IE, Midamble Shift and Burst Type IE, Time Slot IE, for E-AGCH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[3.84Mcps TDD and 7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the E-HICH Information IE, the Node B shall configure the E-HICH according to the parameters.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any Add to E-HICH Resource Pool 1.28Mcps IE, the Node B shall add this resource to the E-HICH resource pool to be used to assign E-HICH sets.]

[7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any Modify E-HICH Resource Pool 1.28Mcps IEs and includes any of E-HICH Type IE, TDD Channelisation Code IE, Midamble Shift LCR IE, Time Slot LCR IE, UARFCN IE for E-HICH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any Delete from E-AGCH Resource Pool IEs, the Node B shall delete these resources from the E-AGCH resource pool.]

[3.84Mcps TDD and 7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the E-HICH Information IE, the Node B shall configure the E-HICH according to the parameters.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any Add to E-HICH Resource Pool 1.28Mcps IE, the Node B shall add this resource to the E-HICH resource pool to be used to assign Scheduled or Non-scheduled E-HICH sets.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any Modify E-HICH Resource Pool 1.28Mcps IEs and includes any of E-HICH Type IE, TDD Channelisation Code IE, Midamble Shift LCR IE, Time Slot LCR IE, UARFCN IE for E-HICH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]
[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any Modify E-HICH Resource Pool 1.28Mcps IEs and includes the Maximum E-HICH Power IE, the Node B shall apply this value for the specified E-HICH code otherwise the old value is still applicable.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any Delete from E-HICH Resource Pool 1.28Mcps IEs, the Node B shall delete these resources from the E-HICH resource pool.]

[3.84Mcps TDD and 7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Maximum Generated Received Total Wide Band Power in Other Cells IE, the Node B shall use this value to control E-DCH scheduling.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes Maximum Target Received Total Wide Band Power LCR IE, the Node B shall use this value to control E-DCH scheduling.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes Maximum RTWP per UARFCN information LCR IE, the Node B may use this value to control E-DCH scheduling in a multi-frequency cell and ignore the Maximum Target Received Total Wide Band Power LCR IE.]

[TDD - PDSCH/PUSCH Addition]:

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be added, the Node B shall add these new sets to its PDSCH/PUSCH configuration.]

[1.28Mcps TDD - If the TSTD Indicator IE is included in PDSCH To Add Information LCR IE and is set to "active", the Node B shall activate TSTD diversity for PDSCH transmissions using the specified PDSCH Set that are not beacon channels [19, 21]. If the TSTD Indicator IE is set to "not active" or the TSTD Indicator IE is not included in PDSCH To Add Information LCR IE, the Node B shall not activate TSTD diversity for the PDSCH Set.]

[TDD - PDSCH/PUSCH Modification]:

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be modified, and includes any of [3.84Mcps TDD - DL/UL Code Information IE, Midamble Shift And Burst Type IE, Time Slot IE], [1.28Mcps TDD - DL/UL Code Information LCR IE, Midamble Shift LCR IE, Time Slot LCR IE], [7.68Mcps TDD - DL/UL Code Information 7.68Mcps IE, Midamble Shift And Burst Type 7.68Mcps IE, Time Slot IE], TDD Physical Channel Offset IE, Repetition Period IE, Repetition Length IE, or TFCI Presence IE, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[TDD - PDSCH/PUSCH Deletion]:

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be deleted the Node B shall delete these sets from its PDSCH/PUSCH configuration.]

[1.28Mcps TDD - SYNC_UL Partition]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes SYNC_UL Partition Information IE, the Node B shall store the E-RUCCH SYNC_UL codes bitmap IE used to differentiate the E-DCH random access from the RACH random access according to [21].]

[FDD – Common E-DCH Operation]:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common E-DCH System Information IE, then the Node B shall:

- If the Common E-DCH UL DPCH Information IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:

- If the Common E-DCH E-DPCH Information IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:

- If the E-RGCH 2-Index-Step IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, the Node B shall use the value when the new configuration is being used. For the case...
of initial assignment of E-DCH related resources to the NodeB, if E-RGCH 2-Index-Step IE is not present, the NodeB shall use the default value defined in [18].

- If the E-RGCH 3-Index-Step IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, the Node B shall use the value when the new configuration is being used. For the case of initial assignment of E-DCH related resources to the NodeB, if E-RGCH 3-Index-Step IE is not present, the NodeB shall use the default value defined in [18].

- If the Common E-DCH Information IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:

  - If the E-DCH Reference Power Offset IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-i PDU and to determine the value of the actual HARQ power offset.

  - If the E-DCH Power Offset for Scheduling Info IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-is PDUs.

  - If the Maximum TB Sizes IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B may use this information for the Node B scheduler in the new configuration.

- If the Common E-DCH HS-DPCCH Information IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration.

- If the Common E-DCH CQI Information is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall use the information for CQI operation in the new configuration.

- If the Common E-DCH Preamble Control Information IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:

  - If the E-AI Indicator IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall use this value for configuration of E-AIs on the AICH.

  - If the Common E-DCH AICH Information IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall use this information for configuration of AICH.

- If the Common E-DCH F-DPCH Information IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:

  - If the Initial DL Transmission Power IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall, if supported, use this value for configuration of Initial DL Transmission Power on the F-DPCH.

  - If the Maximum DL Power IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall, if supported, use this value for configuration of Maximum DL Power on the F-DPCH.

  - If the Minimum DL Power IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall, if supported, use this value for configuration of Minimum DL Power on the F-DPCH.

- If the Common E-DCH E-AGCH Channelisation Code Number IE is included, then the Node B shall use the indicated channelization code for the E-AGCH for the common E-DCH in the new configuration.

- If the Common E-DCH Resource Combination Information IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:

  - If the E-RGCH Signature Sequence IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall configure the E-RGCH for the combination and use indicated signature sequence.
- If the UL Common MAC Flow Specific Information IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:
  - If the Transport Layer Address IE and Binding ID IE are included in the UL Common MAC Flow Specific Information IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned UL Common MAC flow.
  - If the TNL QoS IE is included and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.
  - The Node B shall include in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message the Binding ID IE and Transport Layer Address IE for establishment of transport bearer for every UL Common MAC flow being established.
  - If the Bundling Mode Indicator IE is included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message and the Bundling Mode Indicator IE is set to "Bundling" and the E-TTI IE is set to "2ms", then the Node B shall use the bundling mode for the Common E-DCH UL data frames for the related UL Common MAC flow, otherwise the Node B shall use the non-bundling mode for the Common E-DCH UL data frames for the related UL Common MAC flow.
- If the E-DCH MAC-d Flow Multiplexing List IE is included for a Common E-DCH MAC-d flow in the Common E-DCH MAC-d Flow Specific Information IE, the Node B shall use this information for the related resource allocation operation.[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common UL MAC Flows To Delete IEs, then the Node B shall use this information to delete the indicated Common UL MAC flows. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common UL MAC Flows To Delete IE requesting the deletion of all remaining Common UL MAC flows, then the Node B shall delete the common E-DCH system configuration and release the resources for Common E-DCH.][FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common E-DCH MAC-d Flows To Delete IEs, then the Node B shall use this information to delete the indicated Common E-DCH MAC-d flows. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common E-DCH MAC-d Flows To Delete IE requesting the deletion of all remaining Common E-DCH MAC-d flows associated to a Common UL MAC flow, then the Node B shall release the resources for the Common UL MAC flow.]

[1.28Mcps TDD – Common E-DCH Operation]:

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common E-DCH System Information LCR IE, then the Node B shall:
  - If the UL Common MAC Flow Specific Information LCR IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration:
    - If the Transport Layer Address IE and Binding ID IE are included in the UL Common MAC Flow Specific Information IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned UL Common MAC flow.
    - If the TNL QoS IE is included and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related transport bearer.
    - The Node B shall include in the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message the Binding ID IE and Transport Layer Address IE for establishment of transport bearer for every UL Common MAC flow being established.
    - If the E-DCH MAC-d Flow Multiplexing List IE is included for a Common E-DCH MAC-d flow in the Common E-DCH MAC-d Flow Specific Information LCR IE, the Node B shall use this information for the related resource allocation operation.]
- If the *Common E-PUCH Information LCR* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration.

- If the *E-TFCS Information TDD* IE is included, then the Node B shall apply the parameters to the common E-DCH in new configuration.

[1.28Mcps TDD] - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common E-DCH MAC-\textit{d} Flows To Delete LCR* IEs, then the Node B shall use this information to delete the indicated Common E-DCH MAC-\textit{d} flows. If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Common UL MAC Flows to Delete LCR* IE requesting the deletion of all remaining Comm E-DCH MAC-\textit{d} flows associated to a Common UL MAC flow, then the Node B shall release the resources for the Common UL MAC flow.

**FDD – Enhanced UE DRX Operation:**

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Enhanced UE DRX Information* IE, then the Node B shall use the information to execute Enhanced UE DRX for the cell.]

1.28Mcps DD – Enhanced UE DRX Operation:

1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Enhanced UE DRX Information LCR* IE, then the Node B shall use the information to execute Enhanced UE DRX for the cell.

1.28Mcps TDD - Shared physical channels Synchronisation Detection:

1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Out-of-sync Detection Window* IE, then the Node B shall use this IE to detect the synchronization status of UE as described in ref [21], subclause 5.3.2A.

1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the *Treset Usage Indicator* IE, if supported, the Node B shall stop using all configured MAC-ehs Reset Timers for the UEs in enhanced CELL_PCH or CELL_FACH with dedicated H-RNTI according to [32].

**Response Message:**

**HS-DSCH/HS-SCCH Resources:**

In the successful case involving HS-PDSCH or HS-SCCH resources, the Node B shall store the value of *Configuration Generation ID* IE and it shall make these resources available to all the current and future HS-DSCH transport channels; and shall respond with PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.

**TDD - PDSCH/PUSCH Addition/Modification/Deletion:**

[TDD - In the successful case involving PDSCH/PUSCH addition, modification or deletion, the Node B shall add, modify and delete the PDSCH Sets and PUSCH Sets in the Common Transport Channel data base, as requested in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, and shall make these available to all the current and future DSCH and USCH transport channels. The Node B shall respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.]

8.2.18.3 Unsuccessful Operation

**Figure 27: Physical Shared Channel Reconfiguration procedure: Unsuccessful Operation**
If the Node B is not able to support all parts of the configuration, it shall reject the configuration of all the channels in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message. The Cause IE shall be set to an appropriate value [TDD - either a single general cause value or PDSCH and PUSCH set specific cause values for each set that caused a failure within the Unsuccessful DL Shared Channel Set IE for PDSCH sets or Unsuccessful UL Shared Channel Set IE for PUSCH sets]. The Configuration Generation ID shall not be changed in the Node B.

If the configuration was unsuccessful, the Node B shall respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message:

1.28Mcps TDD - For a multi-frequency cell, if the Node B is not able to support all parts of the configuration, in the case the Node B can only support configuration on one or some frequencies, the HSDPA or E-DCH related resources on this or these frequencies may be regarded as having successfully been established/reconfigured/removed, the Node B shall reject the HSDPA or E-DCH related configuration on other failed frequencies. The Node B may respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message. The HS-Cause IE or E-Cause IE in the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message may be set to specific cause values for each frequency that caused a failure. If the failure occurs on the HS-PDSCH, HS-SCCH, E-PUCH or E-AGCH resources, the Node B may store the value of the Configuration Generation ID IE and it shall make these resources available to all the current and future HS-DSCH or E-DCH transport channels. If the Node B is not able to support the HSDPA or E-DCH related configuration on any frequencies, the Cause IE may be set to an appropriate value, which is either a general cause value or specific cause values for each frequency that caused a failure. For the successfully configured HSUPA frequencies, the E-HICH Time Offset LCR per UARFCN IE may be included in the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message. For the successfully configured Enhanced CELL_FACH frequencies, the Common System Information Response LCR IE may be included in the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.

Typical cause values are as follows:

Radio Network Layer Cause:
- Cell not available
- Node B Resources unavailable

Transport Layer Cause:
- Transport Resources Unavailable

Miscellaneous Cause:
- O&M Intervention
- Control processing overload
- HW failure

8.2.18.4 Abnormal Conditions

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains Add to HS-SCCH Resource Pool IE, the Modify HS-SCCH Resource Pool IE, or the Delete from HS-SCCH Resource Pool IE and does not contain the Configuration Generation ID the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[3.84Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the Add to E-AGCH Resource Pool IE, the Modify E-AGCH Resource Pool IE, or the Delete from E-AGCH Resource Pool IE and does not contain the Configuration Generation ID the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the Add to E-AGCH Resource Pool 1.28Mcps IE, the Modify E-AGCH Resource Pool 1.28Mcps IE, or the Delete from E-AGCH Resource Pool IE and does not contain the Configuration Generation ID the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]
[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the Add to E-HICH Resource Pool 1.28Mcps IE, the Modify E-HICH Resource Pool 1.28Mcps IE, or the Delete from E-HICH Resource Pool 1.28Mcps IE and does not contain the Configuration Generation ID the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[7.68Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the Add to E-AGCH Resource Pool 7.68Mcps IE, the Modify E-AGCH Resource Pool 7.68Mcps IE, or the Delete from E-AGCH Resource Pool 1.28Mcps IE and does not contain the Configuration Generation ID the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the Configuration Generation ID IE and does not contain at least one of Add to HS-SCCH Resource Pool IE, the Modify HS-SCCH Resource Pool IE, [3.84Mcps TDD - the Add to E-AGCH Resource Pool IE, the Modify E-AGCH Resource Pool IE, the Delete from E-AGCH Resource Pool IE, the Modify E-HICH Resource Pool 1.28Mcps IE, the Delete from E-HICH Resource Pool 1.28Mcps IE, the Modify E-AGCH Resource Pool 1.28Mcps IE, the Delete from E-AGCH Resource Pool 7.68Mcps IE, the Modify E-AGCH Resource Pool 7.68Mcps IE, or the Delete from E-HICH Resource Pool 7.68Mcps IE], or the Delete from HS-SCCH Resource Pool IE the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[FDD - If neither E-AGCH nor E-HICH/E-RGCH resources are configured in the cell, and if one or more codes are included in the E-AGCH FDD Code Information IE and/or E-RGCH/E-HICH FDD Code Information IE but the Maximum Target Received Total Wide Band Power IE is not included in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, then the Node B shall send PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE, and the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE is not identical to the scrambling code of the phase reference, then the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE in the HS-DPA And E-DCH Cell Portion Information IE, and the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE is not identical to the scrambling code of the phase reference, then the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes HS-DSCCH Common Information IE and/or Common MAC Flow Specific Information IE and if the Priority Queues associated with the same Common MAC Flow ID IE have the same Scheduling Priority Indicator IE value, the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the UARFCN IE in the DL Timeslot and Code Information LCR per UARFCN IE in the HS-PDSCH TDD Information IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the UARFCN IE in the HS-SCCH Information LCR IE in the Add to HS-SCCH Resource Pool IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the UARFCN IE in the HS-SCCH Information LCR IE in the Modify HS-SCCH Resource Pool IE, the HS-SCCH information on the new frequency shall be provided, otherwise the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the UARFCN IE in the E-AGCH Information 1.28Mcps IE in the Modify E-AGCH Resource Pool 1.28Mcps IE, the E-AGCH information on the new frequency shall be provided, otherwise the Node B
shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the UARFCN IE in the E-HICH Information 1.28Mcps IE in the Modify E-HICH Resource Pool 1.28Mcps IE, the E-HICH information on the new frequency shall be provided, otherwise the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the DL Timeslot and Code Information LCR IE in the DL Timeslot and Code Information LCR per UARFCN IE in the HS-PDSCH TDD Information IE but contains UARFCN IE, and no HS-DSCH resources are configured on the frequency within the cell, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the DL Timeslot and Code Information LCR IE in the DL Timeslot and Code Information LCR per UARFCN IE in the E-PUCH Information 1.28Mcps IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the UARFCN IE in the Add to E-AGCH Resource Pool 1.28Mcps IE, the Modify E-AGCH Resource Pool 1.28Mcps IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[1.28Mcps TDD - For a multi-frequency cell, if the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message does not contain the UARFCN IE in the Add to E-HICH Resource Pool 1.28Mcps IE, the Modify E-HICH Resource Pool 1.28Mcps IE, the Node B shall consider the procedure as having failed and shall send the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message to the CRNC.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes the Common E-DCH System Information IE and if the message does not contain the HS-DSCH Common System Information IE or the resource for enhanced FACH is not configured for the cell, the Node B shall reject the procedure using the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message.]
8.2.19.2 Successful Operation

8.2.19.2.1 Reset Initiated by the CRNC

The procedure is initiated with a RESET REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

If the Reset Indicator IE is set to "Communication Context", the Node B shall remove all the indicated Node B Communication Contexts (identified by a Node B Communication Context ID or a CRNC Communication Context ID IE) and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

If the Reset Indicator IE is set to "Communication Control Port", the Node B shall remove all the Node B Communication Contexts controlled via the indicated Communication Control Port(s) and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

If the Reset Indicator IE is set to "Node B", the Node B shall remove all the Node B Communication Contexts within the Node B and all the radio resources allocated for these Node B Communication Contexts. The Node B shall also initiate release of the user plane transport bearers that were involved in these Contexts. After clearing all related resources, the Node B shall return the RESET RESPONSE message to the CRNC.

8.2.19.2.2 Reset Initiated by the Node B

The procedure is initiated with a RESET REQUEST message sent from the Node B to the CRNC using the Node B Control Port.

If the Reset Indicator IE is set to "Communication Context", for all indicated CRNC Communication Contexts (indicated by a CRNC Communication Context ID or a Node B Communication Context ID IE), the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the indicated CRNC Communication Contexts. After clearing all related resources, the CRNC shall return the RESET RESPONSE message to the Node B.

If the Reset Indicator IE is set to "Communication Control Port", for all the CRNC Communication Contexts controlled via the indicated Communication Control Port(s), the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the CRNC Communication Contexts controlled via the indicated Communication Control Port(s). After clearing all related resources, the CRNC shall return the RESET RESPONSE message to Node B.

If the Reset Indicator IE is set to the "Node B", for all the CRNC Communication Contexts related to this Node B, the CRNC shall remove the information related to this Node B and all the radio resources allocated in the CRNC. The CRNC shall also initiate release of the user plane transport bearers towards the Node B involved in the CRNC.
Communication Contexts related to this Node B. After clearing all related resources, the CRNC shall return the RESET RESPONSE message to Node B.

8.2.19.3 Unsuccessful Operation

8.2.19.4 Abnormal Conditions

If the RESET REQUEST message is received any ongoing procedure related to a CRNC Communication Context in the CRNC or Node B Communication Context in the Node B indicated (explicitly or implicitly) in the message shall be aborted.

8.2.20 Cell Synchronisation Initiation [TDD]

8.2.20.1 General

This procedure is used by a CRNC to request the transmission of [3.84Mcps TDD - Cell Synchronisation Bursts sent in the PRACH time slots] [1.28Mcps TDD - SYNC_DL code sent in the DwPTS] and/or to start measurements on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL code] in a Node B.

8.2.20.2 Successful Operation

The procedure is initiated with a CELL SYNCHRONISATION INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall initiate the requested transmission according to the parameters given in the request and start the measurement on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL code] if requested.

[3.84Mcps TDD - Cell Sync Burst Transmission Initiation] [1.28Mcps TDD - SYNC_DL Code Transmission Initiation LCR]:

When the [3.84Mcps TDD - Cell Sync Burst Transmission Initiation Information] [1.28Mcps TDD - SYNC_DL Code Transmission Initiation Information LCR] is present, the Node B shall configure the transmission of the cell synchronisation burst according to the parameters given in the CELL SYNCHRONISATION INITIATION REQUEST message. The SFN IE indicates the frame number when the cell shall start transmitting cell synchronisation bursts.

[3.84Mcps TDD - When the Cell Sync Burst Transmission Initiation Information is present and the "Frequency Acquisition" is indicated within the Synchronisation Report Type IE, the Node B shall first perform only frequency locking on received cell synchronisation bursts. Transmission of the indicated cell synchronisation bursts shall be started only if the frequency locking is performed successfully and "Frequency Acquisition completed" is reported to the RNC.]

[3.84Mcps TDD - Cell Sync Burst Measurement characteristics] [1.28Mcps TDD - SYNC_DL Code Measurement characteristics LCR]:

Figure 27C Cell Synchronisation Initiation procedure, Successful Operation
When the [3.84Mcps TDD - Cell Sync Burst Measurement Initiation Information][1.28Mcps TDD - SYNC_DL Code Measurement Initiation Information LCR] is present, the Node B shall initiate measurements on the indicated cell synchronisation burst.

If the SFN IE is present, the Node B shall after measurement of the indicated [3.84Mcps TDD - Cell Synchronisation Burst][1.28Mcps TDD - SYNC_DL Code] adjust the frame number of the indicated cell according to the SFN of the CELL SYNCHRONISATION INITIATION REQUEST message. This adjustment shall only apply to the late entrant cell at the late entrant phase.

**Synchronisation Report characteristics:**

The Synchronisation Report Characteristics IE indicates how the reporting of the [3.84Mcps TDD - Cell Synchronisation Burst][1.28Mcps TDD - SYNC_DL Code] measurement shall be performed. Whenever the Cell Synchronisation Initiation procedure is initiated, only [3.84Mcps TDD - the “Frequency Acquisition completed” or] “Frame related” report characteristics type shall apply.

[3.84Mcps TDD - If the Synchronisation Report characteristics type IE is set to “Frequency Acquisition completed”, the Node B shall signal completion of frequency acquisition to the RNC when locking is completed.]

If the Synchronisation Report characteristics type IE is set to “Frame related”, the Node B shall report the result of the cell synchronisation burst measurement after every measured frame.

[3.84Mcps TDD - If the Cell Sync Burst Arrival Time IE is included in the Cell Sync Burst Information IE of the Synchronisation Report Characteristics IE, it indicates to the Node B the reference time at which the reception of the cell synchronisation burst of a neighbouring cell is expected.]

[3.84Mcps TDD - If the Cell Sync Burst Timing Threshold IE is included in the Cell Sync Burst Information IE of the Synchronisation Report Characteristics IE, the Node B shall use this threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

[1.28Mcps TDD - If the SYNC_DL Code ID Arrival Time IE is included in the SYNC_DL Code Information LCR IE of the Synchronisation Report Characteristics IE, it indicates to the Node B the reference time at which the reception of the SYNC_DL Code of a neighbouring cell is expected.]

[1.28Mcps TDD - If the SYNC_DL Code ID Timing Threshold IE is included in the SYNC_DL Code Information LCR IE of the Synchronisation Report Characteristics IE, the Node B shall use this threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

**Response message:**
If the Node B was able to initiate the [3.84Mcps TDD - Cell Synchronisation Burst][1.28Mcps TDD - SYNC_DL Code] transmission and/or measurement requested by the CRNC it shall respond with the CELL SYNCHRONISATION INITIATION RESPONSE message sent over the Node B Control Port.

8.2.20.3 Unsuccessful Operation

![Diagram](image)

**Figure 27D Cell Synchronisation Initiation procedure, Unsuccessful Operation**

If the requested transmission or measurement on [3.84Mcps TDD - Cell Synchronisation Bursts][1.28Mcps TDD - SYNC_DL Code] cannot be initiated, the Node B shall send a CELL SYNCHRONISATION INITIATION FAILURE message over the Node B control port. The message shall include the Cause IE set to an appropriate value.

Typical cause values are as follows:

**Radio Network Layer Cause:**
- Cell Synchronisation not supported
- Power level not supported
- Measurement Temporarily not Available
- Frequency Acquisition not supported

Miscellaneous Cause:
- O&M Intervention
- HW failure

8.2.20.4 Abnormal Conditions

8.2.21 Cell Synchronisation Reconfiguration [TDD]

8.2.21.1 General

This procedure is used by a CRNC to reconfigure the transmission of [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Code] and/or to reconfigure measurements on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Code] in a Node B.

8.2.21.2 Successful Operation

8.2.21.2.1 General

The procedure is initiated with a CELL SYNCHRONISATION RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall reconfigure the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] transmission and/or measurements according to the parameters given in the request.

8.2.21.2.2 [3.84Mcps TDD - Cell Sync Burst Schedule]

Within the CELL SYNCHRONISATION RECONFIGURATION REQUEST message first the schedule for the steady state phase is fixed. I.e. the number of cycles per SFN period is defined with the same schedule. For each cycle, the number of repetitions is defined according to following equations:

Cycle length: 4096 / value of Number Of Cycles Per SFN Period IE
Repetition period: Cycle length / value of Number Of Repetitions Per Cycle Period IE

Cell Sync Frame number is calculated by:
SFN = floor((k-1) * Cycle length + (i-1)* Repetition period)

k = {1, 2, 3, .. Number of cycle per SFN period}
The synchronisation schedule includes the option of averaging of measured correlation results within the Node B over a sequence of measurements, for increasing the reliability of the Time of Arrival measurement obtained from the correlation results. For this purpose, the concept of "subcycles" has been introduced: Each Synchronisation Cycle is divided into "subcycles" where in each subcycle, the same set of SYNC_DL transmissions and receptions is performed, and averaging takes place over all the subcycles within a Synchronisation Cycle. Since the list of actions (transmission, measurements etc) is the same in each subcycle, and the subcycles are repeated to make up a cycle, and the cycles make up an SFN period, the full list of actions is derived by the actions specified for a subcycle.

The full list of SFNs which make up the synchronisation schedule within the SFN period are calculated in Node B and CRNC autonomously based on the following parameters included in the CELL SYNCHRONISATION RECONFIGURATION REQUEST message: "Number of cycles per SFN period", "Number of subcycles per cycle period", and "Number of repetitions per cycle period", along the following equations:

- **Cycle length**: $\frac{4096}{\text{value of } \text{Number Of Cycles Per SFN Period IE}}$
- **Subcycle length**: $\frac{\text{Cycle length}}{\text{value of } \text{Number Of Subcycles Per Cycle Period IE}}$
- **Repetition period**: $\frac{\text{Cycle length} \times (j-1) + \text{Subcycle length} \times (i-1)}{\text{value of } \text{Number Of Repetitions Per Cycle Period IE}}$

**Note** that if the **Number Of Subcycles Per Cycle** IE is equal to 1, then the subcycles are identical to the "Synchronisation Cycles".

If the **Number Of Subcycles Per Cycle** IE is included in the CELL SYNCHRONISATION RECONFIGURATION REQUEST [TDD] message, then the Node B shall apply this number for dividing the Synchronisation Cycles in Subcycles. If the IE is not present, then the Node B shall assume that there is one subcycle per synchronisation cycle only, which is identical to the synchronisation cycle.

**Averaging is performed as follows:**

- From each SYNC_DL code being received according to the schedule, the Node B shall calculate a "correlation function" by matching the received data with the respective expected code.
- Therefore the set of measurements within one subcycle provides a set of "correlation functions".
- The set of correlation functions of the first subcycle within a synchronisation cycle is stored in an averaging memory.
- The sets of correlation functions of the subsequent subcycles within a synchronisation cycle are combined with the available contents of the "averaging memory", to produce an average over all the sets of correlation functions within a synchronisation cycle.
At the end of a synchronisation cycle, the Time-of-Arrival measurements for that synchronisation cycle are obtained by evaluating the final set of correlation functions.

These Time-of-Arrival measurements, together with associated SIR values obtained from the averaged correlation functions, are included in a Measurement Report to the CRNC, according to a measurement reporting plan.

In addition, the Time-of-Arrival measurements may optionally be used for autonomous self-adjustment of the timing of the respective cell.

8.2.21.2.4 [3.84Mcps TDD - Cell Sync Burst Transmission Reconfiguration] [1.28Mcps TDD - SYNC_DL Code Transmission Reconfiguration]

When the [3.84Mcps TDD - Cell Sync Burst Transmission Reconfiguration Information] [1.28Mcps TDD - SYNC_DL Code Transmission Reconfiguration Information LCR] is present, the Node B shall reconfigure the transmission of the [3.84Mcps TDD - cell synchronisation burst] [1.28Mcps TDD - SYNC_DL Code] according to the parameters given in the CELL SYNCHRONISATION RECONFIGURATION REQUEST message.

[3.84Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the Cell Sync Burst Code IE, the Node B shall reconfigure the synchronisation code in the cell according to the Cell Sync Burst Code IE value.]

[3.84Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the Cell Sync Burst Code Shift IE, the Node B shall reconfigure the synchronisation code shift in the cell according to the Cell Sync Burst Code Shift IE value.]

[3.84Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the DL Transmission Power IE, the Node B shall reconfigure the DL transmission power of the cell synchronisation burst in the cell according to the DL Transmission Power IE value.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the DwPCH Power IE, the Node B shall store the DwPCH power according to the DwPCH Power IE value. For the duration of those subsequent transmissions of the DwPCH which are specifically for the purpose of Node B synchronisation the power of the DwPCH shall be set to the stored power. During subsequent transmissions of the DwPCH which are for normal operation the power of the DwPCH shall assume its normal level.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the Sync_DL Code ID IE, the Node B shall reconfigure the SYNC_DL Code in the cell according to the Sync_DL Code ID IE value.]

8.2.21.2.5 [3.84Mcps TDD - Cell Sync Burst Measurement Reconfiguration] [1.28Mcps TDD - SYNC_DL Code Measurement Reconfiguration]

When the [3.84Mcps TDD - Cell Sync Burst Measurement Reconfiguration Information] [1.28Mcps TDD - Cell SYNC_DL Code Measurement Reconfiguration Information LCR] is present, the Node B shall reconfigure the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurements according the parameters given in the message.

If the CELL SYNCHRONISATION RECONFIGURATION REQUEST message includes the [3.84Mcps TDD -Cell Sync Burst Measurement Information] [1.28Mcps TDD - SYNC_DL Code Measurement Information LCR], the measurements shall apply on the individual [3.84Mcps TDD -Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Codes] on the requested Sync Frame number.

[1.28Mcps TDD - When the Propagation Delay Compensation IE is present in the SYNC_DL Code Measurement Information LCR, the Node B shall, if supported, perform the following functions: (1) use the respective SYNC_DL measurement (after potential averaging) to perform the self-adjustment of the respective cell’s timing at the end of a Synchronisation Cycle; (2) include the Accumulated Clock Update IE in the CELL SYNCHRONISATION REPORT message, to report the total accumulated amount of timing adjustments since the last report to the RNC. This Accumulated Clock Update value shall also include the adjustments which may have been performed by explicit order from the CRNC in the CELL SYNCHRONISATION ADJUSTMENT REQUEST message. The times for self-adjustment at the end of a synchronisation cycle shall be independent from the measurement reporting characteristics; the Accumulated Adjustment values shall be included in the CELL SYNCHRONISATION REPORT messages without influencing the frequency of measurement reporting.]

If the Synchronisation Report Type IE is provided, the measurement reporting shall apply according the parameter given in the message.
Synchronisation Report characteristics:
The Synchronisation Report Characteristics IE indicates how the reporting of the cell synchronisation burst measurement shall be performed.

If the Synchronisation Report Characteristics Type IE is set to "Frame related", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurement after every measured frame.

If the Synchronisation Report Characteristics Type IE is set to "SFN period related", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurements after every SFN period.

If the Synchronisation Report Characteristics Type IE is set to "Cycle length related", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurements after every cycle length within the SFN period.

If the Synchronisation Report Characteristics Type IE is set to "Threshold exceeding", the Node B shall report the result of the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurement when the [3.84Mcps TDD - Cell Sync Burst Arrival Time] [1.28Mcps TDD - SYNC_DL Code ID Arrival Time] rises or falls more than the requested threshold value compared to the arrival time in synchronised state which is represented by the [3.84Mcps TDD - Cell Sync Burst Arrival Time IE] [1.28Mcps TDD - SYNC_DL Code ID Arrival Time IE].

[3.84Mcps TDD - If the Cell Sync Burst Arrival Time IE is included in the Cell Sync Burst Information IE of the Synchronisation Report Characteristics IE, it indicates to the Node B the reference time at which the reception of the cell synchronisation burst of a neighbouring cell is expected.]

[3.84Mcps TDD - If the Cell Sync Burst Timing Threshold IE is included in the Cell Sync Burst Information IE of the Synchronisation Report Characteristics IE, the Node B shall use this new threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

[1.28Mcps TDD - If the SYNC_DL Code ID Arrival Time IE is included in the SYNC_DL Code Information LCR IE of the Synchronisation Report Characteristics IE, it indicates to the Node B the reference time at which the reception of the SYNC_DL Code of a neighbouring cell is expected.]

[1.28Mcps TDD - If the SYNC_DL Code ID Timing Threshold IE is included in the SYNC_DL Code Information LCR IE of the Synchronisation Report Characteristics IE, the Node B shall use this threshold as a trigger for the CELL SYNCHRONISATION REPORT message.]

Response message:
If the Node B was able to reconfigure the [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] transmission and/or measurement requested by the CRNC, it shall respond with the CELL SYNCHRONISATION RECONFIGURATION RESPONSE message sent over the Node B Control Port.

8.2.21.3 Unsuccessful Operation

If the Node B cannot reconfigure the requested transmission or measurement on [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code], the CELL SYNCHRONISATION RECONFIGURATION FAILURE message shall be sent to the CRNC. The message shall include the Cause IE set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

- Cell Synchronisation not supported
- Power level not supported
- Measurement Temporarily not Available

Miscellaneous Cause:
- O&M Intervention
- HW failure

8.2.21.4 Abnormal Conditions

8.2.22 Cell Synchronisation Reporting [TDD]

8.2.22.1 General

This procedure is used by a Node B to report the result of [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] measurements requested by the CRNC with the Cell Synchronisation Initiation or Cell Synchronisation Reconfiguration procedure.

8.2.22.2 Successful Operation

If the requested synchronisation measurement reporting criteria are met, the Node B shall initiate a Cell Synchronisation Reporting procedure. The CELL SYNCHRONISATION REPORT message shall use the Node B Control Port.

In the steady state phase when several [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Codes] shall be measured per Sync Frame number, the sequence of the reported measured values shall be the same as defined in the Cell Synchronisation Reconfiguration procedure.

[1.28Mcps TDD - The Node B shall, if supported, include the Accumulated Clock Update IE in the CELL SYNCHRONISATION REPORT message whenever the CRNC has included at least one instance of the Propagation Delay Compensation IE in the CELL SYNCHRONISATION RECONFIGURATION REQUEST message. The Accumulated Clock Update IE shall include the accumulated timing adjustment which has been done as commanded by the CRNC, as well as by self-adjustment, since the last Accumulated Clock Update IE report.]

If the achieved measurement accuracy does not fulfil the given accuracy requirement defined in [23], the Cell Sync Burst not available shall be reported.

8.2.22.3 Abnormal Conditions

-
8.2.23 Cell Synchronisation Termination [TDD]

8.2.23.1 General

This procedure is used by the CRNC to terminate a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] transmission or measurement previously requested by the Cell Synchronisation Initiation procedure or Cell Synchronisation Reconfiguration procedure.

8.2.23.2 Successful Operation

![Cell Synchronisation Termination procedure, Successful Operation](image1)

This procedure is initiated with a CELL SYNCHRONISATION TERMINATION REQUEST message, sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall terminate [3.84Mcps TDD - transmission of Cell Synchronisation Bursts or reporting of Cell Synchronisation Burst measurements] [1.28Mcps TDD - transmission of SYNC_DL Codes or reporting of SYNC_DL Code measurements] corresponding to the CSB Transmission ID IE or CSB Measurement ID IE.

8.2.23.3 Abnormal Conditions

8.2.24 Cell Synchronisation Failure [TDD]

8.2.24.1 General

This procedure is used by the Node B to notify the CRNC that a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] transmission or synchronisation measurement procedure can no longer be supported.

8.2.24.2 Successful Operation

![Cell Synchronisation Failure procedure, Successful Operation](image2)

This procedure is initiated with a CELL SYNCHRONISATION FAILURE INDICATION message, sent from the Node B to the CRNC using the Node B Control Port, to inform the CRNC that a previously requested transmission or measurement on [3.84Mcps TDD - Cell Synchronisation Bursts] [1.28Mcps TDD - SYNC_DL Codes] can no longer be supported.

If the transmission of a [3.84Mcps TDD - Cell Synchronisation Burst] [1.28Mcps TDD - SYNC_DL Code] has failed, then the Node B shall include the CSB Transmission ID IE in the CELL SYNCHRONISATION FAILURE
8.2.24.3 Abnormal Conditions

8.2.25 Cell Synchronisation Adjustment [TDD]

8.2.25.1 General

The purpose of Cell Synchronisation Adjustment procedure is to allow the CRNC to adjust the timing of the radio transmission of a cell within a Node B for time alignment.

8.2.25.2 Successful Operation

This procedure is initiated with a CELL SYNCHRONISATION ADJUSTMENT REQUEST message sent by the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B adjusts its timing according to the parameters given in the message.

If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the Frame Adjustment Value IE the Node B shall apply the frame adjustment in the cell according to the Frame Adjustment Value IE value.

[3.84Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the Timing Adjustment Value IE the Node B shall apply the timing adjustment in the cell according to the Timing Adjustment Value IE value.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the Timing Adjustment Value LCR IE the Node B shall apply the timing adjustment in the cell according to the Timing Adjustment Value LCR IE value.]

[3.84Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the DL Transmission Power IE, the Node B shall apply the transmission power of the Cell Synchronisation Burst according to the DL Transmission Power IE value.]

[1.28Mcps TDD - If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the DwPCH Power IE, the Node B shall store the DwPCH power according to the DwPCH Power IE value. For the duration of those subsequent transmissions of the DwPCH which are specifically for the purpose of Node B synchronisation the power of the DwPCH shall be set to the stored power. During subsequent transmissions of the DwPCH which are for normal operation the power of the DwPCH shall assume its normal level.]

If the CELL SYNCHRONISATION ADJUSTMENT REQUEST message includes the SFN IE, the Node B shall apply the synchronisation adjustment starting with the SFN number indicated in the message.
When the cell synchronisation adjustment is successfully done by the Node B, the Node B shall respond with a CELL SYNCHRONISATION ADJUSTMENT RESPONSE message.

8.2.25.3 Unsuccessful Operation

If the Node B cannot perform the indicated cell synchronisation adjustment due to hardware failure or other problem it shall send the CELL SYNCHRONISATION ADJUSTMENT FAILURE as a response.

Typical cause values are as follows:

Radio Network Layer Cause
- Cell Synchronisation Adjustment not supported
- Power level not supported

Miscellaneous Cause
- O&M Intervention
- HW failure

8.2.25.4 Abnormal Conditions

8.2.26 Information Exchange Initiation

8.2.26.1 General
This procedure is used by a CRNC to request the initiation of information provisioning from a Node B.

8.2.26.2 Successful Operation

The procedure is initiated with the INFORMATION EXCHANGE INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception, the Node B shall provide the requested information according to the Information Type Item IE. Unless specified below, the meaning of the parameters are given in other specifications.
If the Information Type IE contains a GANSS Generic Data IE, at least one of the GANSS Navigation Model And Time Recovery, GANSS Time Model GNSS-GNSS, GANSS UTC Model, GANSS Almanac, GANSS Real Time Integrity, GANSS Data Bit Assistance, GANSS Additional Navigation Models And Time Recovery, GANSS Additional UTC Models, GANSS Auxiliary Information IEs shall be present in the GANSS Generic Data IE.

- If the GANSS Generic Data IE does not contain the GANSS ID IE, the Node B shall assume that the corresponding GANSS is "Galileo".

**Information Report Characteristics**

The Information Report Characteristics IE indicates how the reporting of the information shall be performed.

If the Information Report Characteristics IE is set to "On Demand", the Node B shall report the requested information immediately.

If the Information Report Characteristics IE is set to "Periodic", the Node B shall immediately report the requested information and then shall periodically initiate the Information Reporting procedure for all the requested information, with the requested reporting frequency.

If the Information Report Characteristics IE is set to "On Modification", the Node B shall immediately report the requested information if available. If the requested information is not available at the moment of receiving the INFORMATION EXCHANGE INITIATION REQUEST message, but expected to become available after some acquisition time, the Node B shall initiate the Information Reporting procedure when the requested information becomes available. The Node B shall then initiate the Information Reporting procedure in accordance to the following conditions related to the Information Type IE:

1) If the Information Type Item IE is set to "DGPS Corrections", the Node B shall initiate the Information Reporting procedure when either the PRC has drifted from the previously reported value more than the threshold indicated in the PRC Deviation IE in the Information Threshold IE or a change has occurred in the IODE.

2) If the Information Type Item IE is set to "GPS Information" and the GPS Information Item IE includes "GPS Navigation Model & Time Recovery", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change has occurred regarding either the IODC or the list of visible satellites, identified by the Sat ID IEs.

3) If the Information Type Item IE is set to "GPS Information" and the GPS Information Item IE includes "GPS Ionospheric Model", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.

4) If the Information Type Item IE is set to "GPS Information" and the GPS Information Item IE includes "GPS UTC Model", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change has occurred in the t₀ or WN parameter.

5) If the Information Type Item IE is set to "GPS Information" and the GPS Information Item IE includes "GANSS Almanac", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when a change in the t₀ or WN parameter has occurred.

6) If the Information Type Item IE is set to "GPS Information" and the GPS Information Item IE includes "GPS Real-Time Integrity", the Node B shall initiate the Information Reporting procedure for this specific GPS Information Item when any change has occurred.

7) If the Information Type Item IE is set to "DGANSS Corrections", the Node B shall initiate the Information Reporting procedure when either the PRC has drifted from the previously reported value more than the threshold indicated in the PRC Deviation IE in the Information Threshold IE or a change has occurred in the IOD.

8) If the Information Type Item IE is set to "GANSS Information" and the GANSS Information IE includes the GANSS Navigation Model And Time Recovery IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred regarding either the IOD or the list of visible satellites, identified by the Sat ID IEs.

9) If the Information Type Item IE is set to "GANSS Information" and the GANSS Information IE includes the GANSS Ionospheric Model IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.
10) If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Time Model** IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.

11) If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS UTC Model** IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the $t_\text{oa}$ or WN$_t$ parameter.

12) If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Almanac** IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change in the T$_\text{sat}$, IOD$_n$, or Week Number parameter has occurred.

13) If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Real Time Integrity** IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.

14) If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Data Bit Assistance** IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.

15) If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Additional Navigation Models And Time Recovery** IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred regarding either the IOD or the list of visible satellites, identified by the Sat ID IEs.

16) If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Additional Ionospheric Model** IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when any change has occurred.

17) If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Additional UTC Models** IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the $t_\text{oa}$, WN$_{oa}$, WN$_t$, or N$^\circ$ parameter.

18) If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Earth Orientation Parameters** IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the $t_\text{EOB}$ parameter.

19) If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Auxiliary Information** IE, the Node B shall initiate the Information Reporting procedure for this specific GANSS Information item when a change has occurred in the $t_\text{EOB}$ parameter.

20) If any of the above **Information Type** IEs becomes temporarily unavailable, the Node B shall initiate the Information Reporting procedure for this specific Information Item by indicating "Information Not Available" in the **Requested Data Value Information** IE. If the Information becomes available again, the Node B shall initiate the Information Reporting procedure for this specific Information.

**Response message**

If the Node B is able to initiate the information provision requested by the CRNC, it shall respond with the INFORMATION EXCHANGE INITIATION RESPONSE message sent over the Node B Control Port. The message shall include the same Information Exchange ID that was included in the INFORMATION EXCHANGE INITIATION REQUEST message. When the **Report Characteristics** IE is set to "On Modification" or "Periodic", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the requested data if the data are available. When the **Report Characteristics** IE is set to "On Demand", the INFORMATION EXCHANGE INITIATION RESPONSE message shall contain the **Requested Data Value Information** IE.

If the **Requested Data Value** IE contains the **GANSS Common Data** IE, at least one of the **GANSS Ionospheric Model** , **GANSS RX Pos**, **GANSS Additional Ionospheric Model**, or **GANSS Earth Orientation Parameters** IEs shall be present. Any **GANSS Generic Data** IE associated with a given GANSS included in the **Requested Data Value** IE shall contain at least one of the **DGANNSS Corrections**, **GANSS Navigation Model And Time Recovery**, **GANSS Time Model**, **GANSS UTC Model**, **GANSS Almanac**, **GANSS Real Time Integrity**, **GANSS Data Bit Assistance**, **GANSS Additional Time Models**, **GANSS Additional Navigation Models And Time Recovery**, **GANSS Additional UTC Models**, or **GANSS Auxiliary Information** IEs.
- If the **GANSS Generic Data** IE does not contain the **GANSS ID** IE, the corresponding GANSS is "Galileo".

- The **DGANSS Corrections** IE contains one or several **DGANSS Information** IEs, each of them associated with a GANSS Signal. A **DGANSS Information** IE for a particular GANSS that does not contain the **GANSS Signal ID** IE is by default associated with the default signal defined in [18], clause 10.3.3.45a.

- The **GANSS Real Time Integrity** IE contains one or several **Satellite Information** IEs, each of them associated with a satellite and a GANSS Signal. A **Satellite Information** IE for a particular GANSS that does not contain the **Bad GANSS Signal ID** IE is by default associated with all the signals of the corresponding satellite (see [39, 43, 44, 45, 46, 47, 48]).

If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Time Model GNSS-GNSS** IE with exactly one bit set to value "1", the Node B shall include the **GANSS Time Model** IE in the **Requested Data Value** IE with the requested time information.

If the **Information Type Item** IE is set to "GANSS Information" and the **GANSS Information** IE includes the **GANSS Time Model GNSS-GNSS** IE with more than one bit set to value "1", the Node B shall include the **GANSS Additional Time Models** IE in **Requested Data Value** IE with the requested time information for each GANSS.

If the **Information Type Item** IE is set to "DGPS Corrections", the Node B shall include the **DGPS Corrections** IE in **Requested Data Value** IE with the **DGNSS Validity Period** IE included, if available.

If the **Information Type Item** IE is set to "DGANSS Corrections", the Node B shall include the **DGANSS Corrections** IE in **Requested Data Value** IE with the **DGNSS Validity Period** IE included, if available.

### 8.2.26.3 Unsuccessful Operation

![Diagram](image)

**Figure 27M: Information Exchange Initiation procedure, Unsuccessful Operation**

If the Information Type Item received in the **Information Type Item** IE indicates a type of information that cannot be provided, the Node B shall regard the Information Exchange Initiation procedure as failed.

If the requested information provision cannot be initiated, the Node B shall send the **INFORMATION EXCHANGE INITIATION FAILURE** message over the Node B control port. The message shall include the same Information Exchange ID that was used in the **INFORMATION EXCHANGE INITIATION REQUEST** message and the **Cause** IE set to an appropriate value.

Typical cause values are as follows:

**Radio Network Layer Cause**
- Information temporarily not available.
- Information Provision not supported for the object.

### 8.2.26.4 Abnormal Conditions

If the **Information Report Characteristics** IE is set to "On Modification", and the **Information Type Item** IE is set to "DGPS Corrections", or "DGANSS Corrections", but the **Information Threshold** IE is not received in the **INFORMATION EXCHANGE INITIATION REQUEST** message, the Node B shall regard the Information Exchange Initiation procedure as failed.
If the Information Type Item IE is not set to "DGPS Correction" or "DGANSS Corrections", the Information Report Characteristics IE is set to "On Modification" and the Information Threshold IE is included in the INFORMATION EXCHANGE INITIATION REQUEST message, the Node B shall regard the Information Exchange Initiation procedure as failed.

8.2.27 Information Reporting

8.2.27.1 General

This procedure is used by a Node B to report the information requested by the CRNC with the Information Exchange Initiation procedure.

8.2.27.2 Successful Operation

![Diagram of Information Reporting procedure, Successful Operation](image)

If the requested information reporting criteria are met, the Node B shall initiate the Information Reporting procedure. The INFORMATION REPORT message shall use the Node B Control Port. Unless specified below, the meaning of the parameters are given in other specifications.

The Information Exchange ID IE shall be set to the Information Exchange ID provided by the CRNC when initiating the Information Exchange with the Information Exchange Initiation procedure.

The Requested Data Value IE shall include at least one IE containing the data to be reported.

8.2.27.3 Abnormal Conditions

-

8.2.28 Information Exchange Termination

8.2.28.1 General

This procedure is used by the CRNC to terminate the provision of information previously requested by the Information Exchange Initiation procedure.

8.2.28.2 Successful Operation

![Diagram of Information Exchange Termination procedure, Successful Operation](image)

This procedure is initiated with an INFORMATION EXCHANGE TERMINATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.
Upon reception, the Node B shall terminate the provision of information corresponding to the Information Exchange ID.

8.2.28.3 Abnormal Conditions

8.2.29 Information Exchange Failure

8.2.29.1 General

This procedure is used by the Node B to notify the CRNC that information previously requested by the Information Exchange Initiation procedure can no longer be reported.

8.2.29.2 Successful Operation

This procedure is initiated with the INFORMATION EXCHANGE FAILURE INDICATION message sent from the Node B to the CRNC using the Node B Control Port to inform the CRNC that information previously requested by the Information Exchange Initiation procedure can no longer be reported. The message shall include the same Information Exchange ID that was used in the INFORMATION EXCHANGE INITIATION REQUEST message and the Cause IE set to an appropriate value.

8.2.30 MBMS Notification Update

8.2.30.1 General

This procedure is used to update the MBMS Notification Indicators to be sent over the MICH.

8.2.30.2 Successful Operation

The procedure is initiated with an MBMS NOTIFICATION UPDATE COMMAND message sent from the CRNC to the Node B using the Node B Control Port.

The Node B shall use the different NIs in the NI Information IE to generate, as specified in ref. [7], the notification indicators it shall transmit on the MICH starting at the next coming MICH CFN equal to the value in the MICH CFN IE and for a duration equal to the Modification Period. If the value of MICH CFN IE is the same as the one in a previously received MBMS NOTIFICATION UPDATE COMMAND message, and if the MICH CFN occurrence has not been reached yet, the Node B shall overwrite the value of the NI Information IE in the previously received MBMS NOTIFICATION UPDATE COMMAND message.

If the Modification Period IE is included in the MBMS NOTIFICATION UPDATE COMMAND message, the Node B shall use this as the new Modification Period starting at the next coming MICH CFN equal to the value in the MICH
CFN IE. If the value of MICH CFN IE is the same as the one in a previously received MBMS NOTIFICATION UPDATE COMMAND message, and if the MICH CFN occurrence has not been reached yet, the Node B shall overwrite the value of the Modification Period IE in the previously received MBMS NOTIFICATION UPDATE COMMAND message.

If the Modification Period IE is not included in the MBMS NOTIFICATION UPDATE COMMAND message, the Node B shall use the lastest stored Modification Period.

8.2.30.3 Abnormal Conditions

If the Modification Period IE is not included in the MBMS NOTIFICATION UPDATE COMMAND message and no Modification Period is stored in the Node B, the Node B shall initiate the Error Indication procedure.

8.2.31 UE Status Update [FDD and 1.28Mcps TDD]

8.2.31.1 General

This procedure is used by the CRNC to inform NodeB that one or several E-RNTIs, previously allocated to UEs in CELL_FACH state, may be released as the UE no longer use the E-RNTI.

8.2.31.2 Successful Operation

![Figure 27R: UE Status Update procedure, Successful Operation](image)

The procedure is initiated with a UE STATUS UPDATE COMMAND message sent from the CRNC to the Node B using the Node B Control Port.

Upon reception of the UE STATUS UPDATE COMMAND message, the Node B may use the information about vacant E-RNTI in Vacant E-RNTI IE in Cell E-RNTI status information IE to determine which E-RNTIs are no longer used in the cell and thus allowed to be allocated to another UE using E-DCH

8.2.31.3 Abnormal Conditions

8.3 NBAP Dedicated Procedures

8.3.1 Radio Link Addition

8.3.1.1 General

This procedure is used for establishing the necessary resources in the Node B for one or more additional RLs towards a UE when there is already a Node B Communication Context for this UE in the Node B.

The Radio Link Addition procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.
8.3.1.2 Successful Operation

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the CRNC to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

Upon reception, the Node B shall reserve the necessary resources and configure the new RL(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The Node B shall prioritise resource allocation for the RL(s) to be established according to Annex A.

If the UE Aggregate Maximum Bit Rate IE is contained in the RADIO LINK ADDITION REQUEST message, the NodeB shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

Physical Channels Handling:

[TDD - If the [3.84Mcps TDD - UL DPCH Information IE] [1.28Mcps TDD - UL DPCH Information LCR IE] [7.68Mcps TDD - UL DPCH Information 7.68Mcps IE] is present, the Node B shall configure the new UL DPCH(s) according to the parameters given in the message.]

[TDD - If the [3.84Mcps TDD - DL DPCH Information IE] [1.28Mcps TDD - DL DPCH Information LCR IE] [7.68Mcps TDD - DL DPCH Information 7.68Mcps IE] is present, the Node B shall configure the new DL DPCH(s) according to the parameters given in the message.]

[1.28Mcps TDD - If the UL Timeslot Information LCR IE includes the PLCCH Information IE, the Node B shall transmit TPC /SS bits on a PLCCH according to the parameters given in the message.]

[FDD - Compressed Mode]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Compressed Mode Deactivation Flag IE with value "Deactivate", the Node B shall not activate any compressed mode pattern in the new RLs. In all the other cases (Flag set to "Maintain Active" or not present), the ongoing compressed mode (if existing) shall be applied also to the added RLs.]

[FDD - If the Node B Communication Context is configured to use DPCH in the downlink and if the RADIO LINK ADDITION REQUEST message contains the Transmission Gap Pattern Sequence Code Information IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated for each DL Channelisation Code for which the Transmission Gap Pattern Sequence Code Information IE is set to "Code Change".]

[FDD - DL Code Information]:

[FDD - When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to ref. [8]. When p number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "PhCH number 1", the second to "PhCH number 2", and so on until the pth to "PhCH number p".]

[TDD - CCTrCH Handling]:

[TDD - If the UL CCTrCH Information IE is present, the Node B shall configure the new UL CCTrCH(s) according to the parameters given in the message.]
[1.28 Mcps TDD - If the UL CCTrCH Information IE includes the TDD TPC UL Step Size IE, the Node B shall configure the uplink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

[TDD - If the DL CCTrCH Information IE is present, the Node B shall configure the new DL CCTrCH(s) according to the parameters given in the message.]

[TDD - If the DL CCTrCH Information IE includes the TDD TPC DL Step Size IE, the Node B shall configure the downlink TPC step size according to the parameters given in the message, otherwise it shall use the step size configured in other radio link.]

[1.28 Mcps TDD - The Node B shall configure the HS-SCCH TPC step size to the same value as the TDD TPC DL Step Size IE of the lowest numbered DL CCTrCH whose DL CCTrCH Information IE includes the TDD TPC DL Step Size IE. If no DL CCTrCH Information IE includes the TDD TPC DL Step Size IE, it shall use the step size configured in other radio link.]

[1.28 Mcps TDD - If the TDD TPC DL Step Size IE is not included in the DL CCTrCH Information IE, the Node B shall use the E-AGCH TPC step size IE in the E-PUCCH Information LCR IE in the E-DCH Information 1.28 Mcps IE for HS-SCCH inner loop power control related operation.]

Radio Link Handling:

Diversity Combination Control:

The Diversity Control Field IE indicates for each RL whether the Node B shall combine the new RL with existing RL(s) or not.

- If the Diversity Control Field IE is set to "May", the Node B shall decide for any of the alternatives.

- If the Diversity Control Field IE is set to "Must", the Node B shall combine the RL with one of the other - RL.

- If the Diversity Control Field IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.

[FDD - The signalled Diversity Control Field IE is only applicable for DCHs. In case of E-DCH, if any UARFCN(s) of the cells in the added RL(s) is not equal to at least one of the UARFCN(s) of the cells in the existing RL(s) in the Node B Communication Context, the Diversity Control Field, for those RL(s) shall be assumed to be set to "May", otherwise it shall be assumed to be set to "Must".]

When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.

In the case of not combining a RL with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or a RL previously listed in the RADIO LINK ADDITION RESPONSE message, the Node B shall indicate with the Diversity Indication in the RL Information Response IE in the RADIO LINK ADDITION RESPONSE message that no combining is done. In this case, the Node B shall:

- include in the DCH Information Response IE both the Transport Layer Address IE and the Binding ID IE for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message. [FDD - for which the Transport Bearer Not Requested Indicator IE was not included].

- [FDD - include in the RADIO LINK ADDITION RESPONSE message the Transport Bearer Not Setup Indicator IE for every DCH for which establishment of a transport bearer has not taken place as a result of information in the Transport Bearer Not Requested Indicator IE in the RADIO LINK ADDITION REQUEST message.]

- [FDD - For E-DCH, include in the E-DCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message the Binding ID IE and Transport Layer Address IE for the transport bearers to be established for each E-DCH MAC-d flow of this RL for which the Transport Bearer Not Requested Indicator IE was not included.]

In the case of combining with a RL established with a previous Radio Link Setup or Radio Link Addition Procedure or with a RL previously listed in this RADIO LINK ADDITION RESPONSE message, the Node B shall indicate with the Diversity Indication in the RL Information Response IE in the RADIO LINK...
ADDITION RESPONSE message that the RL is combined and if the ALCAP is not used [FDD - and the transport bearer for this DCH is already established], the Transport Layer Address IE and the Binding ID IE in the RL Specific DCH Information IE included in the RL Information IE for a specific RL in the RADIO LINK ADDITION REQUEST message, shall not be used. In this case, the RL ID IE indicates (one of) the previously established RL(s) or a RL previously listed in this RADIO LINK ADDITION RESPONSE message with which the new RL is combined.

[FDD - In the case of combining with an E-DCH RL established with a previous Radio Link Setup or Radio Link Addition Procedure or with a RL previously listed in this RADIO LINK ADDITION RESPONSE message, one of the previously established RLs or a RL previously listed in this RADIO LINK ADDITION RESPONSE message including the E-DCH FDD Information Response IE shall be regarded as the RL with which the concerned E-DCH RL is combined. In case E-DCH RL is established for the first time, the Node B shall include E-DCH FDD Information Response IE instead of using the Diversity Indication of DCH RL in the RL Information Response IE in the RADIO LINK ADDITION RESPONSE message. It shall include in the E-DCH FDD Information Response IE the Binding ID IE and Transport Layer Address IE for the transport bearers to be established for each E-DCH MAC-d flow of this E-DCH RL for which the Transport Bearer Not Requested Indicator IE was not included.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Additional E-DCH Cell Information RL Add Req IE, then:]
- [FDD - if the Multicell E-DCH Transport Bearer Mode IE for an Additional E-DCH to be Setup is set to "Separate Iub Transport Bearer Mode" the Node B shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]
- [FDD - if the Multicell E-DCH Transport Bearer Mode IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the Node B shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]
- [FDD - if Separate Iub Transport Bearer Mode is used in the new configuration, then:]
  - [FDD - the Node B shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow and use the Transport Bearer Not Requested Indicator IE in the E-DCH MAC-d Flow Specific Information IE in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE to determine the transport bearer configuration in the new configuration for the MAC-d flow of the Secondary Uplink Frequency.]
  - [FDD - If the Transport Layer Address IE and Binding ID IE is included for an E-DCH MAC-d flow in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH FDD Information IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow the Node B shall include in the RADIO LINK ADDITION RESPONSE message the Binding ID IE and Transport Layer Address IE in the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response IE for establishment of a transport bearer for every E-DCH MAC-d flow being established.]

In the case of a set of co-ordinated DCHs, the Binding ID IE and the Transport Layer Address IE shall be included for only one of the DCHs in a set of coordinated DCHs [FDD - for which the Transport Bearer Not Requested Indicator IE was not included].

[TDD - The Node B shall include in the RADIO LINK ADDITION RESPONSE message both the Transport Layer Address IE and the Binding ID IE for the transport bearer to be established for each DSCH and USCH.]

[FDD - Transmit Diversity]:

[FDD - If the Transmit Diversity Indicator IE and/or Transmit Diversity Indicator IE in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Addition IE is included in the RADIO LINK ADDITION REQUEST message, the Node B shall activate/deactivate the Transmit Diversity for each new Radio Link and/or secondary serving HS-DSCH Radio Link in accordance with the Transmit Diversity Indicator IE and/or Transmit Diversity Indicator IE in the HS-DSCH FDD Secondary Serving Information IE and the already known diversity mode for the physical channel.]
DL Power Control:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Initial DL Transmission Power IE, the Node B shall apply the given power to the transmission on each DL DPCH or on the F-DPCH of the RL when starting transmission until either UL synchronisation on the Uu interface is achieved for the RLS or Power Balancing is activated. If no Initial DL Transmission Power IE is included, the Node B shall use any transmission power level currently used on already existing RLs for this Node B Communication Context. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) with DPC MODE currently configured for the relevant Node B Communication Context and the downlink power control procedure (see subclause 8.3.7).]

[3.84 Mcps TDD and 7.68 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the Initial DL Transmission Power IE, the Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the CCTrCH Initial DL Transmission Power IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the Initial DL Transmission Power IE included in the RL Information IE. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no Initial DL Transmission Power IE is included (even if CCTrCH Initial DL Transmission Power IEs are included), the Node B shall use any transmission power level currently used on already existing CCTrCHs for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 4.2.3.4).]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the Initial DL Transmission Power IE, the Node B shall determine the initial DL power for each timeslot within a DCH type CCTrCH by the following rule: If the Initial DL Transmission Power IE is included in the DL Timeslot Information LCR IE, then the Node B shall use that power for the initial DL power and ignore the DL Time Slot ISCP info LCR, otherwise the initial DL power is the Initial DL Transmission Power IE included in the RL Information IE and if DL Time Slot ISCP info LCR IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no Initial DL Transmission Power IE is included, the Node B shall use any transmission power level currently used on already existing RL/timeslots for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Maximum DL Power IE, the Node B shall store this value and not transmit with a higher power on any DL DPCH or on the F-DPCH of the RL. If no Maximum DL Power IE is included, any Maximum DL power stored for already existing RLs for this Node B Communication Context shall be applied. If the Node B Communication Context is configured to use DPCH in the downlink, during compressed mode, the \( P_{curr} \), as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Minimum DL Power IE, the Node B shall store this value and never transmit with a lower power on any DL DPCH or on the F-DPCH of the RL. If no Minimum DL Power IE is included, any Minimum DL power stored for already existing RLs for this Node B Communication Context shall be applied.]
CCTrCH by the following rule: If the **CCTrCH Minimum DL Transmission Power** IE is included for that CCTrCH, then the Node B shall use that power for the minimum CCTrCH DL power, otherwise the minimum CCTrCH DL power is the **Minimum DL Power** IE included in the **RL Information** IE. If no **Minimum DL Power** IE is included (even if **CCTrCH Minimum DL Transmission Power** IEs are included), any minimum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the **Maximum DL Power** IE, the Node B shall determine the maximum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the **Maximum DL Power** IE is included in the **DL Timeslot Information LCR** IE for that timeslot, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the **Maximum DL Power** IE included in the **RL Information** IE. The Node B shall store this value and not transmit with a higher power on any applicable DL DPCH. If no **Maximum DL Power** IE is included, any maximum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the **Minimum DL Power** IE, the Node B shall determine the minimum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the **Minimum DL Power** IE is included in the **DL Timeslot Information LCR** IE for that timeslot, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the **Minimum DL Power** IE included in the **RL Information** IE. The Node B shall store this value and not transmit with a lower power on any applicable DL DPCH. If no **Minimum DL Power** IE is included, any minimum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]

[3.84Mcps TDD and 7.68Mcps TDD - The initial power, maximum power, and minimum power for DSCH type CCTrCH shall be determined as follows:

- If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.

- If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the **Initial DL Transmission Power** IE, the Node B shall determine the initial DL power for each timeslot within a DSCH type CCTrCH by the following rule: If both the **CCTrCH Initial DL Transmission Power** IE, included in the **DL CCTrCH Information** IE, and the **DL Time Slot ISCP Info LCR** IE, included in the **RL Information** IE, are included then the Node B shall use that power for the PDSCCH and ignore the **Initial DL Transmission Power** IE included in the **RL Information** IE, otherwise the initial DL Power is the **Initial DL Transmission Power** IE included in the **RL Information** IE and if **DL Time Slot ISCP info LCR** IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each DL PDSCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no **Initial DL Transmission Power** IE is included, the Node B shall use any transmission power level currently used on already existing RL/timeslots for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the **Maximum DL Power** IE, the Node B shall determine the maximum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the **CCTrCH Maximum DL Transmission Power** IE, included in the **DL CCTrCH Information** IE, is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the **Maximum DL Power** IE included in the **RL Information** IE. The Node B shall store this value and not transmit with a higher power on any applicable PDSCH. If no **Maximum DL Power** IE is included, any maximum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.]
If the RADIO LINK ADDITION REQUEST message includes the **Minimum DL Power IE**, the Node B shall determine the minimum DL power for each timeslot within a DSCH type CCh by the following rule: If the **CCh Minimum DL Transmission Power IE**, included in the **DCh CCh Information IE**, is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the **Minimum DL Power IE** included in the **RL Information IE**. The Node B shall store this value and not transmit with a lower power on any applicable PDSCH. If no **Minimum DL Power IE** is included, any minimum DL power stored for already existing RL/timeslots for this Node B Communication Context shall be applied.

If the RADIO LINK ADDITION REQUEST message includes the **DL Time Slot ISCP Info IE**, the Node B shall use the indicated value when deciding the DL TX Power for each timeslot as specified in ref. [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.

In this case, the Node B shall include the **DL Power Balancing Activation Indicator IE** in the **RL Information Response IE** in the RADIO LINK ADDITION RESPONSE message. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. \( P_{\text{init}} \) shall be set to the power level indicated by the **Initial DL Transmission Power IE** (if received) or the decided DL TX power level on each DL channelisation code of a RL based on power level of existing RLs.

If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing RL(s) and the RADIO LINK ADDITION REQUEST message includes the **DL Reference Power IE**, the Node B shall activate the power balancing and use the **DL Reference Power IE** for the power balancing procedure in the new RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported, according to subclause 8.3.7. In this case, the Node B shall include the **DL Power Balancing Activation Indicator IE** in the **RL Information Response IE** in the RADIO LINK ADDITION RESPONSE message. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. \( P_{\text{init}} \) shall be set to the power level indicated by the **Initial DL Transmission Power IE** (if received) or the decided DL TX power level on each DL channelisation code of a RL based on power level of existing RLs.

If the RADIO LINK ADDITION REQUEST message contains the **Uplink Synchronisation Parameters LCR IE**, the Node B shall use the indicated values of **Uplink Synchronisation Stepsize IE** and **Uplink Synchronisation Frequency IE** when evaluating the timing of the UL synchronisation.

If the **Power Control GAP IE** is included in the RADIO LINK ADDITION REQUEST message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to the [21].

If the RADIO LINK ADDITION REQUEST message includes the Idle Interval Information IE, if supported, the Node B shall use the value for E-UTRAN Inter-RAT measurement according to the [18].

If the RADIO LINK ADDITION REQUEST message includes the Measurement occasion pattern sequence parameters IE in the **DCh Measurement Occasion Information IE**, if HS-SCCH(s), E-AGCH(s) or HS-PDSCH is/are configured on TS0, the Node B shall store the information about the Measurement occasion pattern sequences and use the value(s) to calculate the Inter-frequency/Inter-RAT measurement occasion according to [18].

If the RADIO LINK ADDITION REQUEST message includes the **HS-DSCH Preconfiguration Setup IE** in the **RL Information IE** for a Radio Link not indicated by the **HS-PDSCH RL ID IE** in the **HS-DSCH Serving Cell Change Information IE** the Node B shall if supported preconfigure the indicated cells or Enhanced HS Serving Cell Change according to [49].

- The Node B shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the **C-ID IE** part of the **RL Information IE** in the RADIO LINK ADDITION REQUEST message. The list of secondary serving HS-DSCH cells is designated by the list
of Secondary C-IDs in the HS-DSCH Preconfiguration Setup IE part of the RL Information IE in the RADIO LINK ADDITION REQUEST message.

- [FDD – The number of HS-SCCH codes to preconfigure for each cell may be optionally specified: ]
  - [FDD – - by the Num Primary HS-SCCH Codes IE in the HS-DSCH Preconfiguration Setup IE, for the primary serving HS-DSCH cell]
  - [FDD – - by the Num Secondary HS-SCCH Codes IE in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE for each of the secondary serving HS-DSCH cells]
- [FDD – If Num Primary HS-SCCH Codes IE or Num Secondary HS-SCCH Codes IE is not included in the message the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in [10].]
- [FDD – The Node B shall return these codes in the Sets of HS-SCCH Codes IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE of the RADIO LINK ADDITION RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK ADDITION FAILURE message.]
- [FDD – The Node B shall use the first in the numbered list of the primary serving HS-DSCH cell’s HS-SCCH codes in the HS-SCCH Preconfigured Codes IE sent to the RNC to signal the Target Cell HS-SCCH Order defined in [18].]
- [FDD – The Node B shall include, in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK ADDITION RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK ADDITION FAILURE message, IEs according to the rules defined for HS-DSCH Setup at Serving HS-DSCH Radio Link Change and: ]
  - [FDD – - if HARQ Preamble Mode IE is included in the HS-DSCH Preconfiguration Setup IE the HARQ Preamble Mode Activation Indicator IE]
  - [FDD – - if MIMO Activation Indicator IE is included in the HS-DSCH Preconfiguration Setup IE or in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE the MIMO N/M Ratio IE ]
  - [FDD – - if HS-DSCH MAC-d PDU Size Format IE is included in the HS-DSCH Preconfiguration Setup IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used for the cell in the preconfigured configuration the HS-DSCH TB Size Table Indicator IE for each preconfigured cell]
  - [FDD – - if Sixtyfour QAM Usage Allowed Indicator is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell]
  - [FDD – - if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE]
  - [FDD – - If the UE with enhanced HS-SCCH support indicator IE is included in the HS-DSCH Preconfiguration Setup IE, then the Node B shall store this information in the preconfigured configuration. ]
  - [FDD – - If the UE Support Indicator Extension IE is included in the HS-DSCH Preconfiguration Setup IE, then the Node B may store this information in the preconfigured configuration. ]
  - [FDD – The Node B shall include in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK ADDITION RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK ADDITION FAILURE message the E-DCH FDD DL Control Channel Information containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows: ]
  - [FDD – The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE. ]
- [FDD — The Node B may configure for the preconfigured configuration the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the serving E-DCH RL and include these values in the E-DCH FDD DL Control Channel Information IE.]

- [FDD – If the HS-DSCH Preconfiguration Setup IE includes the E-DCH Indicator IE for a secondary cell, the Node B shall include in the Additional E-DCH Preconfiguration Information IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK ADDITION RESPONSE message or in the Successful RL Information Response IE of the RADIO LINK ADDITION FAILURE message the E-DCH FDD DL Control Channel Information IE containing the preconfigured configuration of the Additional E-DCH serving cell, corresponding to the cell indicated with the E-DCH Indicator IE, according to the rules defined for Serving Additional E-DCH Radio Link Change as follows:]

- [FDD – The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE.]

- [FDD – The Node B may configure for the preconfigured configuration the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the serving Additional E-DCH RL and include these values in the E-DCH FDD DL Control Channel Information IE.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the Non-Serving Preconfiguration Setup IE in the RL Information IE and:]

- [FDD – if the choice of new Serving RL is "New Serving RL in the Node B", the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE and/or New non-serving RL E-DCH FDD DL Control Channel Information B IE in the Non-Serving RL Preconfiguration Info IE for the RL in the RADIO LINK ADDITION RESPONSE message.]

- [FDD – if the choice of new Serving RL is "New Serving RL Not in the Node B", the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information C IE in the Non-Serving RL Preconfiguration Info IE for the RL in the RADIO LINK ADDITION RESPONSE message.]

- [FDD – if the choice of new Serving RL is "New Serving RL in the Node B", the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C for the RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD – if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non-serving E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK ADDITION RESPONSE message.]

General:

If the RADIO LINK ADDITION REQUEST message includes the RL Specific DCH Information IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs [FDD - for which the Transport Bearer Not Requested Indicator IE was not included].

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Transport Bearer Not Requested Indicator IE set to "Transport Bearer shall not be Established" for a DCH, then the Node B shall not establish a transport bearer for the concerned DCH and shall include the Transport Bearer Not Setup Indicator IE for every corresponding DCH in the RADIO LINK ADDITION RESPONSE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Transport Bearer Not Requested Indicator IE set to "Transport Bearer may not be Established" for a DCH and:]
- [FDD - if the Node B establishes a transport bearer for the concerned DCH, the Node B shall include in the RADIO LINK ADDITION RESPONSE message the Binding ID IE and Transport Layer Address IE for establishment of a transport bearer for the DCH being established.]

- [FDD - if the Node B does not establish a transport bearer for the concerned DCH, the Node B shall include the Transport Bearer Not Setup Indicator IE for the corresponding DCH in the RADIO LINK ADDITION RESPONSE message.]

If the RADIO LINK ADDITION REQUEST message includes the RL Specific E-DCH Information IE, the Node B may use the transport layer addresses and the binding identifiers received from the CRNC when establishing transport bearers for the MAC-d flows of the E-DCHs.

The Node B shall start reception on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Initial DL DPCH Timing Adjustment Allowed IE, then the Node B may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the Node B shall include, for the concerned Radio Link(s), the Initial DL DPCH Timing Adjustment IE in the Radio Link Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Synchronisation Indicator IE, set to "Timing Maintained Synchronisation", the Node B shall use synchronisation procedure B according to subclause 4.3.2.4 in [10]. The Node B shall select the TPC pattern as if "first RLS indicator" is set to "first RLS" according to subclause 5.1.2.2.1.2 in [10].]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the F-DPCH Slot Format IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to [7].]

[FDD - Radio Link Set Handling]:

[FDD - For each RL not having a common generation of the TPC commands in the DL with another RL, the Node B shall assign the RL Set ID IE included in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH related information for RLs in different RL Sets shall not be common.]

[FDD - For all RLs having a common generation of the TPC commands in the DL with another new or existing RL, the Node B shall assign the RL Set ID IE included in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. In case of E-DCH, the generation of E-HICH information for RLs in a RL Set shall be common.]

[FDD - After addition of the new RL(s), the UL out-of-sync algorithm defined in [10] shall, for each of the previously existing and newly established RL Set(s), use the maximum value of the parameters N_OUTSYNC_IND and T_RLFailure that are configured in the cells supporting the radio links of the RL Set. The UL in-sync algorithm defined in [10] shall, for each of the established RL Set(s), use the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set.]

[FDD - For each E-DCH RL which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the E-DCH RL Set ID IE in the RADIO LINK ADDITION RESPONSE message. The value of the E-DCH RL Set ID IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

[FDD - Serving HS-DSCH Radio Link Change]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the HS-DSCH Serving Cell Change Information IE, then HS-PDSCH RL ID IE indicates the new Serving HS-DSCH Radio Link.]

- [FDD - In the new configuration the Node B shall allocate the HS-PDSCH resources for the new Serving HS-PDSCH Radio Link.]

- [FDD - The Node B may include the HARQ Memory Partitioning IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message. The HARQ Memory Partitioning IE may contain the HARQ Memory Partitioning Information Extension For MIMO IE.]
- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

- [FDD - If the Node B Communication Context is configured with Sixtyfour QAM allowed for the serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM in the new configuration, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - HS-DSCH Setup on a New Radio Link at Serving HS-DSCH Radio Link Change:]

- [FDD - If the HS-DSCH Information IE is present in the HS-DSCH Serving Cell Change Information IE, then:]

  - [FDD - The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.]

  - [FDD - The HS-DSCH Information IE defines the new HS-DSCH configuration in the Node B to be used on the new HS-DSCH Radio Link.]

  - [FDD - The Node B shall include the HARQ Memory Partitioning IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message. The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]

  - [FDD - If the RADIO LINK ADDITION REQUEST message includes the MAC-hs Guaranteed Bit Rate IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.]

  - [FDD - If the RADIO LINK ADDITION REQUEST message includes the Discard Timer IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.]

  - [FDD - If the RADIO LINK ADDITION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall ignore the SID IE and MAC-d PDU Size IE in the MAC-d PDU Size Index IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related HSDPA Priority Queue.]

  - [FDD - The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK ADDITION REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK ADDITION REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the HS-SCCH Power Offset IE in the HS-DSCH Information IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]
- [FDD - If the RADIO LINK ADDITION REQUEST message includes the Measurement Power Offset IE in the HS-DSCH Information IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the HARQ Preamble Mode IE in the HS-DSCH Information IE, then the Node B shall use the indicated HARQ Preamble Mode as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK ADDITION RESPONSE message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the Node B shall not include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].]

- [FDD - If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

- [FDD - If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the RADIO LINK ADDITION RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

- [FDD - If the UE with enhanced HS-SCCH support indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may use:]
  - [FDD - a different HS-SCCH in consecutive TTIs for this UE.]
  - [FDD - HS-SCCH orders for the case of HS-SCCH-less operation to this UE.]

- [FDD - If the UE Support Indicator Extension IE is included in the HS-DSCH FDD Information IE the Node B may use the supported HSDPA functions for this UE.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes DL RLC PDU Size Format IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, the DL RLC PDU Size Format IE may be used by the Node B to determine the allocated capacity on user plane as described in [24].]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the Priority Queue Information IE in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the NodeB shall, if supported, consider the data of the HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD - If the Single Stream MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE in the HS-DSCH Serving Cell Change Information IE, then the Node B shall activate the Single Stream MIMO mode for the HS-DSCH Radio Link.]

- [FDD - If the Serving Cell Change CFN IE is included into the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. In the new configuration the Node B shall, if applicable, de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link. The Node B shall deactivate those resources at the next coming CFN with a value equal to the value requested by the RNC.]

- [FDD - If the Serving Cell Change CFN IE is not included then the Node B shall activate immediately the resources that are allocated for the new serving HS-PDSCH Radio Link, and shall keep active the resources that are allocated for the previous serving HS-PDSCH Radio Link.]

- [FDD - If the Serving Cell Change CFN IE is not included into the RADIO LINK ADDITION REQUEST message, then the Node B shall include the Transport Layer Address IE and the Binding ID IE for HS-DSCH MAC-d flow for the serving HS-PDSCH RL into the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the HS-DSCH Information IE is present in the HS-DSCH Serving Cell Change Information IE, then the Node B shall include the Transport Layer Address IE and the Binding ID IE for HS-DSCH MAC-d flow for the serving HS-PDSCH RL into the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the Node B needs a bearer re-arrangement, then the Node B may include the Transport Layer Address IE and the Binding ID IE for HS-DSCH MAC-d flow for the serving HS-PDSCH RL into the HS-DSCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If a reset of the MAC-hs is not required the Node B shall include the MAC-hs Reset Indicator IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the requested Serving HS-DSCH Radio Link Change was successful or unsuccessful, the Node B shall indicate this in the HS-DSCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the HS-DSCH Serving Cell Change Information IE includes the Continuous Packet Connectivity HS-SCCH less Information IE, then:]

  - [FDD - The Node B shall configure the new Serving HS-DSCH Radio Link for Continuous Packet Connectivity HS-SCCH less operation according to [10].]

  - [FDD - The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the Continuous Packet Connectivity HS-SCCH less Information Response IE in the HS-DSCH Serving Cell Change Information Response IE.]

  - [FDD - If at least one of HS-PDSCH Second Code Support IE is set to "True", then the Node B shall include HS-PDSCH Second Code Index IE in the RADIO LINK ADDITION RESPONSE message.]

  - [FDD – If the HS-DSCH Serving Cell Change Information IE includes the Continuous Packet Connectivity DTX-DRX Information IE, then:]

    - [FDD – The Node B shall configure the concerned Node B Communication Context for Continuous Packet Connectivity DTX operation according to [10].]

    - [FDD – If DRX Information IE is included in the Continuous Packet Connectivity DTX-DRX Information IE, then the Node B shall configure the concerned Node B Communication Context for Continuous Packet Connectivity DRX operation according to [10].]

[FDD – Secondary Serving HS-DSCH Radio Link Change]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Additional HS Cell Information RL Addition IE, then HS-PDSCH RL ID IE indicates the new secondary serving HS-DSCH Radio Link:]
- [FDD - In the new configuration the Node B shall allocate the HS-PDSCH resources for the new Secondary Serving HS-PDSCH Radio Link. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the Node B Communication Context is configured with Sixtyfour QAM allowed for the secondary serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM in the new secondary serving HS-DSCH Radio Link, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK ADDITION RESPONSE message.]


- [FDD - The Node B shall setup the requested HS-PDSCH resources on the secondary serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.]

- [FDD - The HS-DSCH FDD Secondary Serving Information IE defines the new secondary serving HS-DSCH configuration in the Node B to be used on the new secondary serving HS-DSCH Radio Link. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the HS-SCCH Power Offset IE in the HS-DSCH FDD Secondary Serving Information IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the Single Stream MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B may if the value is set to “allowed” use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE with value set to “not allowed”, then the Node B shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]

- [FDD - If Sixtyfour QAM will not be used for the secondary serving HS-DSCH Radio Link, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

[ETSI]
- [FDD - If the Diversity Mode IE is included in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Addition IE in the RADIO LINK ADDITION REQUEST message the Node B shall apply cell specific transmit diversity configuration and if the Diversity Mode IE is not set to "None" the Node B shall activate/deactivate the Transmit Diversity for the secondary serving HS-DSCH Radio Link in accordance with the Transmit Diversity Indicator IE in the HS-DSCH FDD Secondary Serving Information IE.]

- [FDD - If the Serving Cell Change CFN IE is included in the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new secondary serving HS-DSCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. In the new configuration the Node B shall, if applicable, de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link. The Node B shall deactivate those resources at the next coming CFN with a value equal to the value requested by the RNC.]

- [FDD - If the Serving Cell Change CFN IE is not included then the Node B shall activate immediately the resources that are allocated for the new serving HS-PDSCH Radio Link, and shall keep active the resources that are allocated for the previous serving HS-PDSCH Radio Link.]

- [FDD - If the requested Secondary Serving HS-DSCH Radio Link Change was successful or unsuccessful, the Node B shall indicate this in the HS-DSCH Secondary Serving Cell Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - Additional Serving E-DCH Radio Link Change:]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the Additional E-DCH Cell Information Addition IE in the Additional E-DCH Cell Information RL Add Req IE and HS-PDSCH RL ID IE the Additional HS Cell Information RL Addition IE, the HS-PDSCH RL ID IE indicates the new Additional Serving E-DCH Radio Link.]

- [FDD - In the new configuration the Node B shall allocate the E-DCH resources for the new additional serving E-DCH Radio Link on the secondary UL frequency. Non cell specific E-DCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]

- [FDD - If the old Additional Serving E-DCH RL is within this Node B, the Node B shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]

- [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - The Node B may include in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]

- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional E-DCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - The Node B may include the E-RGCH/E-HICH Channelisation Code IE and/or the E-HICH Signature Sequence IE and/or the E-RGCH Signature Sequence IE or may alternatively include the E-RGCH Release Indicator IE in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message for any of the other E-DCH Radio Links in the Node B Communication Context that have not been included in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE.]

- [FDD - If the Serving Cell Change CFN IE is included in the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new additional serving E-
DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC, or earlier. In this case, in the new configuration the Node B shall, if applicable, de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link. The Node B shall deactivate those resources at the next coming CFN with a value equal to the value requested by the RNC.]

- [FDD - If the Serving Cell Change CFN IE is not included then the Node B shall activate immediately the resources that are allocated for the new additional serving E-DCH Radio Link.]

- [FDD - If the addition of the requested Additional Serving E-DCH Radio Link was successful but the Additional Serving E-DCH Radio Link change was unsuccessful, the Node B shall indicate this in the Additional E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - E-DCH]:

[FDD - If the RADIO LINK ADDITION REQUEST message contains the E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE, then for every such RL:]

- [FDD - The Node B shall setup the E-DCH resources as configured in the Node B Communication Context.]

- [FDD - The Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in RL Information Response IE for every RL indicated by the E-DCH RL Indication IE, set to 'E-DCH' in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the E-RGCH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the E-HICH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]

[FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the Serving E-DCH RL IE, then Serving E-DCH RL IE indicates the new Serving E-DCH Radio Link:]

- [FDD - If the new Serving E-DCH RL is in this Node B:]

  - [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

  - [FDD - The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message for the initial grant for the new serving E-DCH RL.]

  - [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

  - [FDD - The Node B may include the Default Serving Grant in DTX Cycle 2 IE in the RADIO LINK ADDITION RESPONSE message for the new serving E-DCH RL.]

- [FDD - The Node B may include the E-RGCH/E-HICH Channelisation Code IE and/or the E-HICH Signature Sequence IE and/or the E-RGCH Signature Sequence IE or may alternatively include the E-RGCH Release Indicator IE in the E-DCH FDD DL Control Channel Information IE in the E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message for any of the other E-DCH Radio Links in the Node B Communication Context that have not been included in the E-DCH FDD DL Control Channel Information IE in RL Information Response IE.]

ETSI
- [FDD - If the Serving Cell Change CFN IE is included in the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. In the new configuration the Node B shall, if applicable, de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link. The Node B shall deactivate those resources at the next coming CFN with a value equal to the value requested by the SRNC.]

- [FDD - If the Serving Cell Change CFN IE is not included then the Node B shall activate immediately the resources that are allocated for the new serving E-DCH Radio Link.]

- [FDD - If the addition of the requested Serving E-DCH Radio Link was successful but the Serving E-DCH Radio Link change was unsuccessful, the Node B shall indicate this in the E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[FDD - E-DPCH Handling]:

- [FDD - If the RADIO LINK ADDITION REQUEST message includes an E-DPCH Information IE it defines the new E-DPCH configuration in the Node B to be used on the new E-DCH Radio Link and, the Node B shall use the new parameters for the related resource allocation operations.]

- [FDD - If the E-TFCS Information IE in the E-DPCH Information IE contains the E-DPDCH Power Interpolation IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in [10]. If the E-DPDCH Power Interpolation IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [10].]

- [FDD - If the E-TFCS Information IE in the E-DPCH Information IE contains the E-TFCI Boost Information IE, the Node B shall use the information according to [10]. If the E-TFCI Boost Information IE is not present, the Node B shall use the E-TFCI BetaEC Boost value “127” in the algorithm defined in [10].]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes an E-DPCH Information IE, which contains the Minimum Reduced E-DPDCH Gain Factor IE, then the Node B shall use the value to determine the applicable minimum gain factor \( (\beta_{ed,k,\text{reduced,min}}) \) defined in [10]. For the case the Minimum Reduced E-DPDCH Gain Factor IE is not available for the Node B Communication Context, the Node B may use the default value defined in [18].]

[FDD - E-DCH Setup on a new Radio Link:]

- [FDD - If the E-DCH FDD Information IE is present in the RADIO LINK ADDITION REQUEST message:]
  - [FDD - the E-DCH FDD Information IE defines the new E-DCH FDD configuration in the Node B to be used on the new E-DCH Radio Link.]
  - [FDD - If the RADIO LINK ADDITION REQUEST message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH Logical Channel information IE in the E-DCH FDD Information IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.]
  - [FDD - If the RADIO LINK ADDITION REQUEST message includes UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flow Specific Information IE in the E-DCH FDD Information IE, then the NodeB shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]
  - [FDD - If the RADIO LINK ADDITION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels [24] and MAC [32].]
  - [FDD - If the TNL QoS IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]
  - [FDD - If the RADIO LINK ADDITION REQUEST message includes the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the Node B shall use this information for the related resource allocation operation.]
  - [FDD - If the RADIO LINK ADDITION REQUEST message includes the Serving E-DCH RL IE indicating that the Serving E-DCH RL is in this Node B:]

ETSI
[FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the \textit{E-DCH FDD DL Control Channel Information} IE in the \textit{E-DCH Serving Cell Change Information} IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - The Node B may include the \textit{Serving Grant Value} IE and Primary/Secondary Grant Selector IE in the \textit{E-DCH Serving Cell Change Information} IE in the RADIO LINK ADDITION RESPONSE message for the initial grant for the serving E-DCH RL.]

- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new configuration and include the new configuration in the \textit{E-DCH FDD Information} IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - The Node B may include the \textit{Default Serving Grant in DTX Cycle 2} IE in the RADIO LINK ADDITION RESPONSE message for the serving E-DCH RL.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the \textit{E-DCH MAC-d Flow Multiplexing List} IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]

- [FDD - If in the RADIO LINK ADDITION REQUEST message the \textit{E-DCH Grant Type} is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the \textit{HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant} IE, if included, for the related resource allocation operation.]

- [FDD - If in the RADIO LINK ADDITION REQUEST message the \textit{E-DCH Grant Type} is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the \textit{Bundling Mode Indicator} IE for an E-DCH MAC-d flow in the \textit{E-DCH MAC-d Flow Specific Information} IE in the \textit{E-DCH FDD Information} IE and the \textit{Bundling Mode Indicator} IE is set to "Bundling" and the \textit{E-TTI} IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the \textit{E-DCH Maximum Bitrate} IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the \textit{E-DCH Processing Overload Level} IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the \textit{E-DCH Processing Overload Level} IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the \textit{E-DCH Reference Power Offset} IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the \textit{E-AGCH Power Offset} IE in the \textit{RL Specific E-DCH Information} IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the \textit{E-RGCH Power Offset} IE in the \textit{RL Specific E-DCH Information} IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the \textit{E-HICH Power Offset} IE in the \textit{RL Specific E-DCH Information} IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the \textit{E-DCH Power Offset for Scheduling Info} IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]
- [FDD - If the RADIO LINK ADDITION REQUEST message includes the **SixteenQAM UL Operation Indicator** IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the **SixteenQAM UL Operation Indicator** IE.]

- [FDD - If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the **Transport Bearer Not Requested Indicator** IE set to "Transport Bearer shall not be Established" for an E-DCH MAC-d flow, then the Node B shall not establish a transport bearer for the concerned E-DCH MAC-d flow and shall include the **Transport Bearer Not Setup Indicator** IE for the corresponding E-DCH MAC-d flow in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the RADIO LINK ADDITION REQUEST message includes the **Transport Bearer Not Requested Indicator** IE set to "Transport Bearer may not be Established" for an E-DCH MAC-d flow and:]

  - [FDD - if the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include in the RADIO LINK ADDITION RESPONSE message the **Binding ID** IE and **Transport Layer Address** IE for establishment of a transport bearer for the E-DCH MAC-d flow being established.]

  - [FDD - if the Node B does not establish a transport bearer for the concerned E-DCH MAC-d flow, the Node B shall include the **Transport Bearer Not Setup Indicator** IE for the corresponding E-DCH MAC-d flow in the RADIO LINK ADDITION RESPONSE message.]

**[FDD - Additional E-DCH Setup:]**

[FDD - If the **Additional E-DCH Cell Information RL Add Req** IE is present in the RADIO LINK ADDITION REQUEST message and the choice of Setup Or Addition Of E-DCH On Secondary UL Frequency is "Setup", then the **Additional E-DCH Cell Information Setup** IE defines the new configuration and then:]

- [FDD - If the **C-ID** IE is included in the **Additional E-DCH RL Specific Information To Setup** IE in the **Additional E-DCH FDD Setup Information** IE the **C-ID** IE indicates the cell in which the additional E-DCH shall be setup]

  - [FDD - The Node B shall setup the Additional E-DCH on the secondary uplink frequency and setup the requested Additional E-DCH resources on the Radio Links and in the cells indicated by the **E-DCH Additional RL ID** IE and the **C-ID** IE in the **Additional E-DCH RL Specific Information To Setup** IE in the **Additional E-DCH FDD Setup Information** IE.]

  - [FDD - If the **C-ID** IE is not included in the **Additional E-DCH RL Specific Information To Setup** IE in the **Additional E-DCH FDD Setup Information** IE the **E-DCH Additional RL ID** IE indicates the existing RL on which the Additional E-DCH shall be setup.]

- [FDD - The Node B shall setup the Additional E-DCH on the Radio Links indicated by the **E-DCH Additional RL ID** IE in the **Additional E-DCH RL Specific Information To Setup** IE in the **Additional E-DCH FDD Setup Information** IE]

- [FDD - The Node B shall use for the non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters the same values as for the corresponding cell of the Primary uplink frequency.]

- [FDD - If the **DL Power Balancing Information** IE and/or the **Minimum Reduced E-DPDCH Gain Factor** IE are present in the **Multicell E-DCH Information** IE in the **Additional E-DCH FDD Setup Information** IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the **Secondary UL Frequency Activation State** IE is present in the **Multicell E-DCH Information** IE in the **Additional E-DCH FDD Setup Information** IE, the Node B shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]

- [FDD - If the **F-DPCH Slot Format** IE is present in the **Additional E-DCH RL Specific Information To Setup** IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD - If the Primary CPICH Usage For Channel Estimation IE, the Secondary CPICH Information IE, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE and/or the E-HICH Power Offset IE are present in the Multicell E-DCH RL Specific Information IE in the Additional E-DCH RL Specific Information To Setup IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Maximum Bitrate IE, the E-DCH Processing Overload Level IE and/or the E-DCH Minimum Set E-TFCI IE are present in the Additional E-DCH FDD Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If activation of power balancing for the Additional E-DCH RL by the RADIO LINK ADDITION REQUEST message is supported by the Node B, the Node B shall include the DL Power Balancing Activation Indicator IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]

- [FDD - For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]

- [FDD – For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the E-DCH RL Set ID IE for the Additional E-DCH RL in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message.]

- [FDD - If the Additional Serving E-DCH Radio Link is configured in the Node B, then:]

  - [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message.]

  - [FDD - The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]

  - [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message.]

  - [FDD - If the Serving Cell Change CFN IE is included in the RADIO LINK ADDITION REQUEST message, then the Node B shall activate the resources that are allocated for the new additional serving E-DCH Radio Link at the next coming CFN with a value equal to the value requested by the RNC. If the...
Serving Cell Change CFN IE is not included then the Node B shall activate immediately the resources that are allocated for the new additional serving E-DCH Radio Link.

[FDD – Additional E-DCH RL Addition:]

[FDD - If the Additional E-DCH Cell Information RL Add Req IE is present in the RADIO LINK ADDITION REQUEST message and the choice of Setup Or Addition Of E-DCH On Secondary UL Frequency is "Addition", then the Additional E-DCH Cell Information Addition IE defines the new configuration and then:]

- [FDD - The Node B shall setup the requested E-DCH resources as requested, or as configured in the Node B Communication Context, on the Radio Links indicated by the E-DCH Additional RL ID IE in the Additional E-DCH RL Specific Information To Add IE. Non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]

- [FDD - if the Multicell E-DCH Information IE is included and contains the Minimum Reduced E-DPDCH Gain Factor IE, the Node B shall use the information in the same way as for the information used on the Primary uplink frequency.]

- [FDD - If the Additional E-DCH FDD Information IE is included and contains the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Minimum Set E-TFCI IE, the E-DCH Maximum Bitrate IE and/or the E-DCH Processing Overload Level IE, the Node B shall use the information in the same way as for the information used on the Primary uplink frequency.]

- [FDD - If the Initial DL Transmission Power IE, the Maximum DL Power IE, the Minimum DL Power IE and/or the F-DPCH Slot Format IE are present in the Additional E-DCH RL Specific Information To Add IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the Initial DL Reference Power IE, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE and/or the E-HICH Power Offset IE are present in the Multicell E-DCH RL Specific Information IE in the Additional E-DCH RL Specific Information To Add IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing Additional E-DCH RL(s) and the RADIO LINK ADDITION REQUEST message includes the DL Reference Power IE, the Node B shall activate the power balancing and use the DL Reference Power IE for the power balancing procedure in the new Additional E-DCH RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported, according to subclause 8.3.7. In this case, the Node B shall include the DL Power Balancing Activation Indicator IE in the E-DCH Additional RL Specific Information Response IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. $P_{\text{init}}$ shall be set to the power level indicated by the Initial DL Transmission Power IE (if received) in the Additional E-DCH RL Specific Information To Add IE or the decided DL TX power level on each DL channelisation code of an Additional E-DCH RL based on power level of existing Additional E-DCH RLS.]

- [FDD - For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLS in different RL Sets shall not be common.]

- [FDD - For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLS in a RL Set shall be common.]

- [FDD - For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the E-DCH RL Set ID IE for the Additional E-DCH RL in the
Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message.]

- [TDD - For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Add IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION RESPONSE message.]

[TDD - HS-DSCH Setup]:

[TDD - If the HS-DSCH Information IE is present in the RADIO LINK ADDITION REQUEST message, then]:

- [TDD - The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.]

- [TDD - The Node B shall include the HARQ Memory Partitioning IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].]

- [TDD - The Node B shall include in the RADIO LINK ADDITION RESPONSE message the Binding ID IE and Transport Layer Address IE for establishment of transport bearer for every HS-DSCH MAC-d flow being established.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the Transport Layer Address IE and Binding ID IE in the HS-DSCH Information IE for an HS-DSCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned HS-DSCH MAC-d flow. If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the MAC-hs Guaranteed Bit Rate IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the Discard Timer IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall ignore the SID IE and MAC-d PDU Size IE in the MAC-d PDU Size Index IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related HSDPA Priority Queue.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes DL RLC PDU Size Format IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, the DL RLC PDU Size Format IE may be used by the Node B to determine the allocated capacity on user plane as described in [24].]

- [TDD - The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK ADDITION REQUEST message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK ADDITION REQUEST in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.]
[TDD - The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD - HS-SCCH Specific Information Response IE][1.28Mcps TDD - HS-SCCH Specific Information Response LCR IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28Mcps TDD - If the TSN-Length IE is included in the HS-DSCH TDD Information IE, then the IE is used to indicate the TSN bits applied to the MAC-hs PDU frame.]

- [1.28Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the Number of Supported Carriers IE in the UE Capabilities Information IE in the HS-DSCH Information IE, the Node B shall use this information to allocate HSDPA resources over multiple carriers for the UE.]

- [1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK ADDITION REQUEST message includes the Multi-carrier HS-DSCH Physical Layer Category IE in the UE Capabilities Information IE in the HS-DSCH Information IE, the Node B shall use this information together with the HS-DSCH Physical Layer Category IE in the UE Capabilities Information IE in the HS-DSCH Information IE to allocate HSDPA resources over multiple carriers for the UE.]

- [1.28Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the UE T50 Capability LCR IE in the UE Capabilities Information IE in the HS-DSCH Information IE, the Node B may use this information in HSDPA resources allocation for the UE.]

- [1.28Mcps TDD - If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple carriers and include the HS-SCCH Specific Information Response LCR per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28Mcps TDD - If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B shall include the HARQ Memory Partitioning per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28Mcps TDD - If the Node B allows UE to apply HSDPA resources distributed over multiple carriers, the Node B may indicate the number of carriers actually used by the UE and include the Multi-Carrier number IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28Mcps TDD - If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the UsedFrequency IE in the HS-SCCH Specific Information Response LCR IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28Mcps TDD - If the Node B allows UE to use HSDPA resources distributed over multiple carriers, the Node B may include the UARFCN IE in the HS-SCCH Specific Information Response LCR per UARFCN IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28 Mcps TDD - If the MIMO Activation Indicator IE is included in the HS-DSCH TDD Information IE, then, the Node B shall activate the MIMO mode for the HS-DSCH Radio Link, decide the SF mode for HS-PDSCH dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[TDD - Intra-Node B Serving HS-DSCH Radio Link Change]:

[TDD - If the RADIO LINK ADDITION REQUEST message includes the HS-PDSCH RL ID IE, this indicates the new Serving HS-DSCH Radio Link]:

- [TDD - The Node B may include the HARQ Memory Partitioning IE in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

- [TDD - The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD - HS-SCCH Specific Information Response IE][1.28Mcps TDD - HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD - HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[TDD - E-DCH]:

[TDD - If the [3.84Mcps TDD - E-DCH Information IE][1.28Mcps TDD - E-DCH Information 1.28Mcps IE][7.68Mcps TDD - E-DCH Information 7.68Mcps IE] is present in the RADIO LINK ADDITION REQUEST message:]
- [TDD - The Node B shall setup the requested E-DCH resources on the Radio Link indicated by the E-DCH Serving RL IE.]

- [TDD - If the TNL QoS IE is included in the E-DCH MAC-d Flows Information TDD IE for an E-DCH MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the Transport Layer Address IE and Binding ID IE in the E-DCH MAC-d Flows Information TDD IE for an E-DCH MAC-d flow, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the E-DCH MAC-d Flow Multiplexing List IE for an E-DCH MAC-d flow in the E-DCH MAC-d Flows Information TDD IE, the Node B shall use this information for the related resource allocation operation.]

- [TDD - If in the RADIO LINK ADDITION REQUEST message the E-DCH Grant Type IE in the E-DCH MAC-d Flows Information TDD IE is set to "Non-scheduled" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants are configured for that E-DCH MAC-d flow and shall use the information within the [3.84Mcps TDD - E-DCH Non-scheduled Grant Information TDD IE] [1.28Mcps TDD - E-DCH Non-scheduled Grant Information LCR TDD IE] [7.68Mcps TDD - E-DCH Non-scheduled Grant Information 7.68Mcps TDD IE], if included, for the related resource allocation operation.]

- [TDD - If in the RADIO LINK ADDITION REQUEST message the E-DCH Grant Type IE in the E-DCH MAC-d Flows Information TDD IE is set to "Scheduled" the Node B shall assume that it may issue scheduled grants for the concerned E-DCH MAC-d flow.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows Information TDD IE, then the Node B shall use this information to optimise MAC-e scheduling decisions for the related queue.]

- [1.28Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the MAC-es Maximum Bit Rate LCR IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows Information TDD IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information TDD IE in the E-DCH Information IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels [24] and MAC [32].]

- [3.84Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the E-DCH TDD Maximum Bitrate IE in the E-DCH TDD Information IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [1.28Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the E-DCH Physical Layer Category LCR IE or Extended E-DCH Physical Layer Category LCR IE in the E-DCH TDD Information LCR IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [7.68Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the E-DCH TDD Maximum Bitrate 7.68Mcps IE in the E-DCH TDD Information 7.68Mcps IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the E-DCH Processing Overload Level IE in the [3.84Mcps TDD - E-DCH TDD Information IE] [7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE] [1.28Mcps TDD - E-DCH TDD Information LCR IE], then if the Node B could not decode the E-PUCCH for the last consecutive number of TTIs, indicated in the E-DCH Processing Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]

- [TDD - If the RADIO LINK ADDITION REQUEST message includes the E-DCH Power Offset for Scheduling Info IE in the [3.84Mcps TDD - E-DCH TDD Information IE] [1.28Mcps TDD - E-DCH TDD Information LCR IE]
IE] [7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE], then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

- [1.28Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the Maximum Number of Retransmission for Scheduling Info LCR IE and the E-DCH Retransmission timer for Scheduling Info LCR IE in the E-DCH TDD Information LCR IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

- [TDD - The Node B shall allocate an E-RNTI identifier and include the E-RNTI identifier and the E-AGCH(s) assigned in the E-DCH Information Response IE in the RADIO LINK ADDITION RESPONSE message.]

[TDD - Intra-Node B Serving E-DCH Radio Link Change]:

[TDD - If the RADIO LINK ADDITION REQUEST message includes the E-DCH Serving RL IE, this indicates the new Serving E-DCH Radio Link]:


[1.28 Mcps TDD - Continuous Packet Connectivity Handling]:

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the Continuous Packet Connectivity DRX Information LCR IE, then the Node B shall take account into these parameters to decide the DRX operation related parameters and configure the concerned Node B Communication Context for DRX operation according to [21] and include the parameter(s) in the Continuous Packet Connectivity DRX Information Response LCR IE in the RADIO LINK ADDITION RESPONSE message.]

[1.28 Mcps TDD - If the Inactivity Threshold for UE DRX Cycle Ext IE is included in the Continuous Packet Connectivity DRX Information LCR IE, then the NodeB may use this value to determine the Inactivity Threshold for UE DRX Cycle according to [21].]

[1.28 Mcps TDD - If the Enabling Delay Ext IE is included in the Continuous Packet Connectivity DRX Information LCR IE, then the Node B may use this value to determine the beginning of uplink transmission in the new configuration according to [21].]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the HS-DSCH Semi-Persistent scheduling Information LCR IE, then:]

- [1.28 Mcps TDD - The Node B shall configure the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE for HS-DSCH Semi-Persistent scheduling operation according to [21].]

- [1.28 Mcps TDD - The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the HS-DSCH Semi-Persistent scheduling Information Response LCR IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28 Mcps TDD - If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the Node B shall include Allocated HS-PDSCH Semi-persistent resource IE in the RADIO LINK ADDITION RESPONSE message.]

- [1.28 Mcps TDD - The Node B shall include the Buffer Size for HS-DSCH Semi-Persistent scheduling IE in the RADIO LINK SETUP RESPONSE message.]

- [1.28 Mcps TDD - The Node B shall include the Number of Processes for HS-DSCH Semi-Persistent scheduling IE in the RADIO LINK SETUP RESPONSE message.]

[1.28 Mcps TDD - If the RADIO LINK ADDITION REQUEST message includes the E-DCH Semi-Persistent scheduling Information LCR IE, then:]

- [1.28 Mcps TDD - The Node B shall configure the Serving E-DCH Radio Link indicated by the E-DCH Serving RL IE for E-DCH Semi-Persistent scheduling operation according to [21].]

- [1.28 Mcps TDD - If the E-DCH Semi-Persistent Resource Reservation Indicator IE is included in the E-DCH Semi-Persistent scheduling Information LCR IE, then the Node B shall include Allocated E-DCH Semi-persistent resource IE in the RADIO LINK ADDITION RESPONSE message.]
**Response Message:**

If all requested RLs are successfully added, the Node B shall respond with a RADIO LINK ADDITION RESPONSE message.

After sending the RADIO LINK ADDITION RESPONSE message, the Node B shall continuously attempt to obtain UL synchronisation on the Uu interface.

For each RL for which the Delayed Activation IE is not included in the RADIO LINK ADDITION REQUEST message, the Node B shall:

- [FDD - start transmission on the DL DPDCH(s) of the new RL as specified in [16].]
- [TDD - start transmission on the new RL immediately as specified in [16].]

For each RL for which the Delayed Activation IE is included in the RADIO LINK ADDITION REQUEST message, the Node B shall:

- if the Delayed Activation IE indicates "Separate Indication":
  - not start any DL transmission for the concerned RL on the Uu interface;
- if the Delayed Activation IE indicates "CFN":
  - [FDD - start transmission on the DL DPDCH(s) of the new RL as specified in [16], however never before the CFN indicated in the Activation CFN IE.]
  - [TDD - start transmission on the new RL at the CFN indicated in the Activation CFN IE as specified in [16].]

**8.3.1.3 Unsuccessful Operation**

![Figure 29: Radio Link Addition procedure: Unsuccessful Operation](image)

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK ADDITION FAILURE message. The message contains the failure cause in the Cause IE.

[FDD - If some RL(s) were established successfully, the Node B shall indicate this in the RADIO LINK ADDITION FAILURE message in the same way as in the RADIO LINK ADDITION RESPONSE message.]

[FDD - If the RADIO LINK ADDITION REQUEST contains a C-ID IE indicating that a Radio Link must be established on a Cell where DPC Mode change is not supported and DPC Mode can be changed for the relevant Node B Communication Context, the Node B shall consider the procedure as failed for the concerned Radio Link and shall respond with a RADIO LINK ADDITION FAILURE with the appropriate cause value ("DPC Mode change not supported").]

[FDD - If the requested Serving HS-DSCH Radio Link Change was successful, or if the addition of the requested serving HS-DSCH Radio Link was successful or existed already but the Serving HS-DSCH Radio Link change was unsuccessful, the Node B shall indicate this in the HS-DSCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION FAILURE message.]

[FDD - If the requested secondary serving HS-DSCH Radio Link Change was successful, or if the addition of the requested secondary serving HS-DSCH Radio Link was successful or existed already but the secondary serving HS-DSCH Radio Link change was unsuccessful, the Node B shall indicate this in the HS-DSCH Secondary Serving Cell Information Response IE in the RADIO LINK ADDITION FAILURE message.]

**Figure 29: Radio Link Addition procedure: Unsuccessful Operation**
Change Information Response IE in the Additional HS Cell Change Information Response IE in the RADIO LINK ADDITION FAILURE message.]

[FDD - If the requested Serving E-DCH Radio Link Change was successful, or if the addition of the requested serving E-DCH Radio Link was successful or existed already but the Serving E-DCH Radio Link change was unsuccessful, the Node B shall indicate this in the E-DCH Serving Cell Change Information Response IE in the RADIO LINK ADDITION FAILURE message.]

[FDD - If the requested additional serving E-DCH Radio Link Change was successful, or if the addition of the requested additional serving E-DCH Radio Link was successful or existed already but the additional serving E-DCH Radio Link change was unsuccessful, the Node B shall indicate this in the Additional E-DCH Serving Cell Change Information Response IE in the Additional E-DCH Cell Information Response RL Add IE in the RADIO LINK ADDITION FAILURE message.]

Typical cause values are as follows:

Radio Network Layer Cause
- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- UL SF not supported
- DL SF not supported
- Reconfiguration CFN not elapsed
- CM not supported
- [FDD - DPC Mode change not supported]
- Delayed Activation not supported
- [FDD - Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD - Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD - MIMO not available]
- [FDD - SixtyfourQAM DL and MIMO Combined not available]
- [FDD - Multi Cell operation not available.]
- [1.28Mcps TDD- MIMO not available]
- [1.28Mcps TDD - SixtyfourQAM DL and MIMO Combined not available]
- [FDD - TX diversity for MIMO UE on DL Control Channels not available]
- [FDD – Single Stream MIMO not available]
- [FDD - Multi Cell operation with MIMO not available.]
  - [FDD - Multi Cell operation with Single Stream MIMO not available.]
  - [FDD - Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available]
  - [FDD - Multi Cell E-DCH operation not available]

Transport Layer Cause
- Transport Resources Unavailable

Miscellaneous Cause
- O&M Intervention
- Control processing overload
- HW failure

8.3.1.4 Abnormal conditions

[FDD - If the RADIO LINK ADDITION REQUEST message contains the Compressed Mode Deactivation Flag IE with the value "Deactivate" when compressed mode is active for the existing RL(s), and at least one of the new RL is added in a cell that has the same UARFCN (both UL and DL) of at least one cell with an already existing RL, the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM settings".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing RL(s) and if the DL Reference Power IEs are included in the RL Information IE but the DL Reference Power IE is not present for each RL in the RL Information IE, the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the DL Reference Power IEs in the RL Information IE but the power balancing is not active in the existing RL(s) or the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s), the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK ADDITION REQUEST message includes the Transport Layer Address IE and the Binding ID IE in the RL Specific DCH Information IE or RL Specific E-DCH Information IE included in the RL Information IE for a specific RL [FDD - and the E-DCH RL is already configured in the Node B] and the Diversity Control Field IE is set to "Must", the Node B shall regard the Radio Link Addition procedure as failed and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the Transport Layer Address IE and the Binding ID IE in the RL Specific DCH Information IE in the RL Information IE for a specific RL and the Diversity Control Field IE is set to "May", the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the Transport Layer Address IE and the Binding ID IE in the RL Specific DCH Information IE in the RL Information IE for a specific RL and the Diversity Control Field IE is set to "Must Not", the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If ALCAP is not used, if the RADIO LINK ADDITION REQUEST message does not include the Transport Layer Address IE and the Binding ID IE for an HS-DSCH MAC-d Flow in the HS-DSCH MAC-d Flows Information IE, the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the Transport Layer Address IE or the Binding ID IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK ADDITION REQUEST message does not include the UARFCN IE, the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.]

[1.28Mcps TDD - For a single frequency cell, if the RADIO LINK ADDITION REQUEST message includes the UARFCN IE, the Node B shall reject the Radio Link Addition procedure and respond with the RADIO LINK ADDITION FAILURE message.]
[FDD - If the concerned NodeB Communication Context is configured to use DPCH in downlink and if a transmission gap pattern sequence is active with an SF/2 downlink compressed mode method and the RADIO LINK ADDITION REQUEST message does not contain the transmission gap pattern sequence code information for any new radio link, the NodeB shall reject the Radio Link Addition procedure using the RADIO LINK ADDITION FAILURE message with the cause value "Invalid CM Settings".]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-DSCH Serving Cell Change Information* IE but not the *HS-DSCH FDD Information* IE and the Node B Communication Context is not configured for HS-DSCH, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Serving E-DCH RL* IE but the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Serving Cell Change CFN* IE but neither the *Serving E-DCH RL* IE nor *HS-DSCH Serving Cell Change Information* IE is included into, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the *E-DCH FDD Information* IE is present in the RADIO LINK ADDITION REQUEST message, but the *E-DPCH Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH RL Indication* IE set to "E-DCH", but no *E-DCH FDD Information* IE, and the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH FDD Information* IE but no *E-DCH RL Indication* IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message includes the *HS-PDSCH RL-ID* IE not equal to the *RL ID* IE, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message includes the *E-DCH Serving RL* IE not equal to the *RL ID* IE, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message contains the *HS-DSCH Information* IE and if the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID* IE have the same *Scheduling Priority Indicator* IE value, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

If the RADIO LINK ADDITION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] has the value "Indexed MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message does not include the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] and the *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE [FDD - in the *HS-DSCH Serving Cell Change Information*] has the value "Flexible MAC-d PDU Size", the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

[FDD - If the RADIO LINK ADDITION REQUEST message contains, for at least one logical channel, the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information* IE in the *E-DCH FDD Information* IE is not present, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[TDD - If the RADIO LINK ADDITION REQUEST message contains, for at least one logical channel, the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE, and there exist a logical channel for which the *Maximum MAC-d PDU Size Extended* IE in the *E-DCH MAC-d Flows Information TDD* IE in the *E-DCH Information* IE is not present, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

ETSI
If the RADIO LINK ADDITION REQUEST message does not include the Transport Layer Address IE or the Binding ID IE when establishing a transport bearer for HS-DSCH MAC-d flow being added, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the Transport Layer Address IE or the Binding ID IE when establishing a transport bearer for E-DCH MAC-d flow being added, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the HS-PDSCH RL ID IE [FDD - in the HS-DSCH Serving Cell Change Information IE] or/and Serving E-DCH RL IE and if both HS-DSCH and E-DCH are configured in the Node B but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the HS-DSCH Serving Cell Change Information IE and/or Serving E-DCH RL IE and if both HS-DSCH and E-DCH are configured in the Node B but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the HS-DSCH Serving Cell Change Information IE and/or the E-DPCH Information IE which includes the HS-DSCH Configured Indicator IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the HS-DSCH Serving Cell Change Information IE and or the Single Stream MIMO Activation Indicator IE but does not contain the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size", then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the Flexible MAC-d PDU Size, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the MIMO Activation Indicator IE, Sixtyfour QAM Usage Allowed Indicator IE set to "Allowed", the Additional HS Cell Information RL Addition IE and/or the Single Stream MIMO Activation Indicator IE but does not contain the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size", then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the Serving E-DCH RL ID IE but contains the Transport Bearer Not Requested Indicator IE for a DCH or for a DCH for a specific RL and the specific RL is combined with the existing RL which the transport bearer was not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the Transport Bearer Not Requested Indicator IE for a DCH for a specific RL and the specific RL is combined with the existing RL which the transport bearer was not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the Additional HS Cell Information RL Addition IE and if the HS-DSCH is not configured in the NodeB Communication Context and the HS-DSCH Information IE is not present, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the Transport Bearer Not Requested Indicator IE for a DCH or for a DCH for a specific RL and the specific RL is combined with the existing RL which the transport bearer was not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE [FDD - in the HS-DSCH Serving Cell Change Information IE] set to ‘Flexible RLC PDU Size’, HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE [FDD - in the HS-DSCH Serving Cell Change Information IE] has the value “Indexed MAC-d PDU Size”, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message does not include the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE [FDD - in the HS-DSCH Serving Cell Change Information IE] and the DL RLC PDU Size Format IE in the HS-DSCH Information IE [FDD - in the HS-DSCH Serving Cell Change Information IE] has the value “Flexible RLC PDU Size”, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains a MIMO Activation Indicator IE and a Single Stream MIMO Activation Indicator IE in the HS-DSCH FDD Information IE in the HS-DSCH Serving Cell Change Information IE or in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Addition IE, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.

If the RADIO LINK ADDITION REQUEST message contains the Diversity Mode IE in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Addition IE and the secondary serving HS-DSCH is already configured in the Node B Communication Context, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.
[FDD - If the secondary serving HS-DSCH is not configured in the Node B Communication Context and if the RADIO LINK ADDITION REQUEST message contains in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Addition IE the Diversity Mode IE not set to "None" but not the Transmit Diversity Indicator or contains the Transmit Diversity Indicator but not the Diversity Mode IE not set to "None", then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the Additional E-DCH Cell Information RL Add Req IE and if the E-DPCH Information IE is not present or the E-DPCH Information was not configured in the Node B Communication Context, then the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the Additional E-DCH Cell Information RL Add Req IE and there exist a logical channel for which the Maximum MAC-d PDU Size Extended IE in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE is not present, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message contains the Additional E-DCH Cell Information RL Add Req IE and the C-ID IE is not included in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE, and the Radio Link indicated by the E-DCH Additional RL ID IE is not configured in the current Node B Communication Context as a Secondary Serving HS-DSCH radio link without any configured Additional E-DCH, the Node B shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

### 8.3.2 Synchronised Radio Link Reconfiguration Preparation

#### 8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one Node B Communication Context.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.

#### 8.3.2.2 Successful Operation

![Figure 30: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation](image)

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the RADIO LINK RECONFIGURATION PREPARE message to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The Node B shall prioritise resource allocation for the RL(s) to be modified according to Annex A.

If the UE Aggregate Maximum Bit Rate IE is contained in the RADIO LINK RECONFIGURATION PREPARE message, the NodeB shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

**DCH Modification:**
If the RADIO LINK RECONFIGURATION PREPARE message includes any DCHs To Modify IE then the Node B shall treat them each as follows:

- If the DCHs To Modify IE includes the Frame Handling Priority IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.

- If the DCHs To Modify IE includes the Transport Format Set IE for the UL of a DCH, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

- If the DCHs To Modify IE includes the TNL QoS IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The TNL QoS IE may be used to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.

- If the DCHs To Modify IE includes the Transport Format Set IE for the DL of a DCH, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

- If the DCHs To Modify IE includes the Allocation/Retention Priority IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.

- If the DCHs To Modify IE includes multiple DCH Specific Info IEs, the Node B shall treat the DCHs in the DCHs to Modify IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

- [FDD - If the DCHs to Modify IE contains a DCH Specific Info IE which includes the Unidirectional DCH indicator IE set to "Uplink DCH only", the Node B shall ignore the Transport Format Set IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.]

- [FDD - If the DCHs to Modify IE contains a DCH Specific Info IE which includes the Unidirectional DCH indicator IE set to "Downlink DCH only", the Node B shall ignore the Transport Format Set IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]

- If the DCHs To Modify IE includes the UL FP Mode IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the DCHs To Modify IE includes the ToAWS IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the DCHs To Modify IE includes the ToAWE IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- [TDD - If the DCHs To Modify IE includes the CCTrCH ID IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Downlink of this DCH in the new configuration.]

- [TDD - If the DCHs To Modify IE includes the CCTrCH ID IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCHs To Add IEs then the Node B shall treat them each as follows:

- If the DCHs To Add IE includes multiple DCH Specific Info IEs, the Node B shall treat the DCHs in the DCHs To Add IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

- If the DCH Specific Info IE includes the Unidirectional DCH Indicator IE set to "Uplink DCH only", the Node B shall ignore the Transport Format Set IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- If the DCH Specific Info IE includes the Unidirectional DCH Indicator IE set to "Downlink DCH only", the Node B shall ignore the Transport Format Set IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.

- [FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the QE-Selector IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If the QE-Selector IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]

- For a set of co-ordinated DCHs, the Transport channel BER from the DCH with the QE-Selector IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD - If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have the QE-Selector IE set to "non-selected", the Physical channel BER shall be used for the QE, ref. [16].]

- The Node B should store the Frame Handling Priority IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.

- If the TNL QoS IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The TNL QoS IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.

- The Node B shall use the included UL FP Mode IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The Node B shall use the included ToAWS IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The Node B shall use the included ToAWE IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- [TDD - The Node B shall apply the CCTrCH ID IE (for the DL) in the Downlink of this DCH in the new configuration.]

- [TDD - The Node B shall apply the CCTrCH ID IE (for the UL) in the Uplink of this DCH in the new configuration.]

DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCHs To Delete IE, the Node B shall not include the referenced DCHs in the new configuration.

If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the Node B shall not include this set of co-ordinated DCHs in the new configuration.

Physical Channel Modification:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an UL DPCH Information IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD - If the UL DPCH Information IE includes the Uplink Scrambling Code IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]

- [FDD - If the UL DPCH Information IE includes the Min UL Channelisation Code Length IE, the Node B shall apply the value in the new configuration. The Node B shall apply the contents of the Max Number of UL DPDCHs IE (if it is included) in the new configuration.]

- [FDD - If the UL DPCH Information IE includes the UL SIR Target IE, the Node B shall use the value for the UL inner loop power control when the new configuration is being used.]
- [FDD - If the UL DPCH Information IE includes the Puncture Limit IE, the Node B shall apply the value in the uplink of the new configuration.]

- [FDD - The Node B shall use the TFCS IE for the UL (if present) when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the Uplink of the new configuration.]

- [FDD - If the UL DPCH Information IE includes the UL DPCCH Slot Format IE, the Node B shall set the new Uplink DPCCH Structure to the new configuration.]

- [FDD - If the UL DPCH Information IE includes the Diversity Mode IE, the Node B shall apply diversity according to the given value.]

- [FDD - If the UL DPCH Information IE includes the UL DPDCCH Indicator For E-DCH Operation IE and it is set to "UL DPDCCH not present", the UL DPDCCH resources shall be removed from the configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the DL DPCH Information IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink in the old configuration, the Node B shall configure the concerned Node B Communication Context to use DPCH in the downlink in the new configuration.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the DL DPCH Power Information IE, the Node B shall use the information contained in it for the power settings of the DL DPCH. In particular, if the received Inner Loop DL PC Status IE is set to "Active", the Node B shall activate the inner loop DL power control for all RLs. If Inner Loop DL PC Status IE is set to "Inactive", the Node B shall deactivate the inner loop DL power control for all RLs according to ref. [10].]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes a DL DPCH Information IE, the Node B shall apply the parameters to the new configuration as follows:]

- [FDD - The Node B shall use the TFCS IE for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]

- [FDD - If the DL DPCH Information IE includes the TFCI Signalling Mode IE or the TFCI Presence IE, the Node B shall use the information when building TFCIs in the new configuration.]

- [FDD - If the DL DPCH Information IE includes the DL DPCH Slot Format IE, the Node B shall set the new Downlink DPCH Structure to the new configuration.]

- [FDD - If the DL DPCH Information IE includes the Multiplexing Position IE, the Node B shall apply the indicated multiplexing type in the new configuration.]

- [FDD - If the DL DPCH Information IE includes the Limited Power Increase IE set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]

- [FDD - If the DL DPCH Information IE includes the Limited Power Increase IE set to "Not Used", the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the F-DPCH Information IE, the Node B shall configure the concerned Node B Communication Context to use F-DPCH in the downlink in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Transmission Gap Pattern Sequence Information IE, the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated or once the previous Compressed Mode Configuration has been deactivated. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Continuous Packet Connectivity DTX-DRX Information IE, then:]

- [FDD - The Node B shall configure the concerned Node B Communication Context for DTX operation according to [10].]
[FDD - If DRX Information IE is included in the Continuous Packet Connectivity DTX-DRX Information IE, then the Node B shall configure the concerned Node B Communication Context for DRX operation according to [10].]

[FDD - if the RADIO LINK RECONFIGURATION PREPARE message includes the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then:]

- [FDD - If the UE DTX DRX Offset IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall apply the indicated Offset in UE DTX DRX Cycle IE in the new configuration.]  
- [FDD - If the Enabling Delay IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall use this value to determine the beginning of uplink transmission in the new configuration according to [10].]
- [FDD - If the DTX Information To Modify IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall use this information to modify the indicated DTX Information parameter in the new configuration. If the choice of DTX Information To Modify IE is "Deactivate", then DRX should be deactivated together with DTX.]
- [FDD - If the DRX Information To Modify IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall use this information to modify the indicated DRX Information in the new configuration.]

[FDD - if the RADIO LINK RECONFIGURATION PREPARE message includes the Continuous Packet Connectivity HS-SCCH less Information IE, then:]

- [FDD - The Node B shall configure the Serving HS-DSCH Radio Link for Continuous Packet Connectivity HS-SCCH less operation in the new configuration according to [10].]
- [FDD - The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the Continuous Packet Connectivity HS-SCCH less Information Response IE in the RADIO LINK RECONFIGURATION READY message.]  
- [FDD - If at least one of HS-PDSCH Second Code Support IE is set to "True", then the Node B shall include HS-PDSCH Second Code Index IE in the RADIO LINK RECONFIGURATION READY message.]  

[FDD - if the RADIO LINK RECONFIGURATION PREPARE message includes the Continuous Packet Connectivity HS-SCCH less Deactivate Indicator IE, then the Node B shall deactivate the Continuous Packet Connectivity HS-SCCH less operation for the HS-DSCH Radio Link.]  

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Continuous Packet Connectivity DRX Information LCR IE, then the Node B shall take account into these parameters to decide the DRX operation related parameters and configure the concerned Node B Communication Context for DRX operation according to [21] and include the parameter(s) in the Continuous Packet Connectivity DRX Information Response LCR IE in the RADIO LINK RECONFIGURATION READY message.]  

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Continuous Packet Connectivity DRX Information To Modify LCR IE, then:]

- [1.28 Mcps TDD - If the UE DTX DRX Offset IE is included in the Continuous Packet Connectivity DRX Information To Modify LCR IE, then the Node B shall apply the indicated Offset in UE DTX DRX Cycle IE in the new configuration.]  
- [1.28 Mcps TDD - If the Enabling Delay IE is included in the Continuous Packet Connectivity DRX Information To Modify LCR IE, then the Node B shall use this value to determine the beginning of uplink transmission in the new configuration according to [21].]
- [1.28 Mcps TDD - If the DRX Information To Modify IE is included in the Continuous Packet Connectivity DRX Information To Modify LCR IE, then the Node B shall use this information to modify the indicated DRX Information in the new configuration.]  
- [1.28 Mcps TDD - If the Inactivity Threshold for UE DRX Cycle Ext IE is included in the Continuous Packet Connectivity DRX Information LCR IE, then the NodeB may use this value to determine the Inactivity Threshold for UE DRX Cycle according to [21].]
[1.28 Mcps TDD - If the Enabling Delay Ext IE is included in the Continuous Packet Connectivity DRX Information To Modify LCR IE, then the Node B may use this value to determine the beginning of uplink transmission in the new configuration according to [21].]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Semi-Persistent scheduling Information LCR IE, then:]

- [1.28 Mcps TDD - The Node B shall configure the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE for HS-DSCH Semi-Persistent scheduling operation according to [21].]

- [1.28 Mcps TDD - The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the HS-DSCH Semi-Persistent scheduling Information Response LCR IE in the RADIO LINK RECONFIGURATION READY message.]

- [1.28 Mcps TDD - If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the Node B shall include Allcoated HS-PDSCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Semi-Persistent scheduling Information LCR IE, then:]

- [1.28 Mcps TDD - The Node B shall configure the Serving E-DCH Radio Link indicated by the E-DCH Serving RL IE for E-DCH Semi-Persistent scheduling operation according to [21].]

[1.28 Mcps TDD - If the E-DCH Semi-Persistent Resource Reservation Indicator IE is included in the E-DCH Semi-Persistent scheduling Information LCR IE, then the Node B shall include Allcoated E-DCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then:]

- [1.28 Mcps TDD - If the Transport Block Size List IE or/and Repetition Period list IE is/are included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, the Node B shall modify the configuration of Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE for HS-DSCH Semi-Persistent scheduling operation according to [21].]

- [1.28 Mcps TDD - If the Buffer Size for HS-DSCH Semi-Persistent scheduling IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, the Node B shall use this information to modify the buffer size for HS-DSCH Semi-Persistent scheduling operation.]

- [1.28 Mcps TDD - If the Number of Processes for HS-DSCH Semi-Persistent scheduling IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, the Node B shall use this information to allocate the number of processes for HS-DSCH Semi-Persistent scheduling operation.]

- [1.28 Mcps TDD - The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the HS-DSCH Semi-Persistent scheduling Information Response LCR IE in the RADIO LINK RECONFIGURATION READY message.]

- [1.28 Mcps TDD - If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall include Allcoated HS-PDSCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the HS-DSCH Semi-Persistent scheduling operation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall apply this information for HS-DSCH Semi-Persistent scheduling operation.]

- [1.28 Mcps TDD - If the buffer size for HS-DSCH Semi-Persistent scheduling needs to be modified, then the Node B shall include the Buffer Size for HS-DSCH Semi-Persistent scheduling IE in the RADIO LINK RECONFIGURATION READY message.]

- [1.28 Mcps TDD - If the number of processes for HS-DSCH Semi-Persistent scheduling needs to be modified, then the Node B shall include the Number of Processes for HS-DSCH Semi-Persistent scheduling IE in the RADIO LINK RECONFIGURATION READY message.]
[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Semi-Persistent scheduling Information to modify LCR IE, then:]

- [1.28 Mcps TDD - If the Repetition Period list IE is included in the E-DCH Semi-Persistent scheduling Information to modify LCR IE, the Node B shall modify the configuration of Serving E-DCH Radio Link indicated by the E-DCH Serving RL IE for E-DCH Semi-Persistent scheduling operation according to [21].]

- [1.28 Mcps TDD - If the E-DCH Semi-Persistent scheduling Indicator IE is included in the E-DCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall apply this information for E-DCH Semi-Persistent scheduling operation.]

- [1.28 Mcps TDD - If the Semi-Persistent E-DCH related E-HICH Information IE is included in the E-DCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall use this information to modify the configuration of Semi-Persistent E-DCH related E-HICH.]

- [1.28 Mcps TDD - If the E-DCH Semi-Persistent Resource Reservation Indicator IE is included in the E-DCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall include Allocoated E-DCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR IE, then the Node B shall deactivate the HS-DSCH Semi-Persistent scheduling operation for the HS-DSCH Radio Link.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Semi-Persistent scheduling Deactivate Indicator LCR IE, then the Node B shall deactivate the E-DCH Semi-Persistent scheduling operation for the E-DCH Radio Link.]

[FDD - E-DPCH Handling):

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an E-DPCH Information IE, the Node B shall apply the parameters to the new configuration as follows:]

- [FDD - If the E-DPCH Information IE includes the Maximum Set of E-DPDCHs IE, the Node B shall apply the contents of the Maximum Set in the new configuration.]

- [FDD - If the E-DPCH Information IE includes the Puncture Limit IE, the Node B shall apply the value in the uplink of the new configuration]

- [FDD - If the E-DPCH Information IE includes the E-TFCS Information IE, the Node B shall use the E-TFCS Information IE for the E-DCH when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the uplink of the new configuration. If the E-TFCS Information IE contains the E-DCH Minimum Set E-TFCI IE the Node B shall use the value for the related resource allocation operation.]

- [FDD - If the E-TFCS Information IE in the E-DPCH Information IE contains the E-DPDCH Power Interpolation IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in [10]. If the E-DPDCH Power Interpolation IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [10] if the E-DCH FDD Information IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]

- [FDD - If the E-TFCS Information IE in the E-DPCH Information IE contains the E-TFCS Boost Information IE, the Node B shall use the information according to [10]. If the E-TFCI Boost Information IE is not present, the Node B shall use the E-TFCI BetaEC Boost value “127” in the algorithm defined in [10] if the E-DCH FDD Information IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]

- [FDD - If the E-DPCH Information IE includes the E-TTI IE, the Node B shall use the value when the new configuration is being used.]

- [FDD - If the E-DPCH Information IE includes the E-DPCCH Power Offset IE, the Node B shall use the value when the new configuration is being used.]

- [FDD - If the E-DPCH Information IE includes the E-RGCH 2-Index-Step IE, the Node B shall use the value when the new configuration is being used.]

- [FDD - If the E-DPCH Information IE includes the E-RGCH 3-Index-Step IE, the Node B shall use the value when the new configuration is being used.]
- [FDD - If the E-DPCH Information IE includes the HARQ Info for E-DCH IE, the Node B shall use the value when the new configuration is being used.]

- [FDD - If the E-DPCH Information IE includes the HS-DSCH Configured Indicator IE, the Node B shall use the value when the new configuration is being used.]

- [FDD - If the E-DPCH Information IE includes the Minimum Reduced E-DPDCH Gain Factor IE, then the Node B shall use the value to determine the applicable minimum gain factor \( \beta_{ed,k,reduced,min} \) defined in [10]. For the case the Minimum Reduced E-DPDCH Gain Factor IE is not available for the Node B Communication Context, the Node B may use the default value defined in [18].]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any UL CCTrCH to Modify or DL CCTrCH to Modify IE, then the Node B shall treat them each as follows:]

- [TDD - If the IE includes any of the TFCS IE, TFCI coding IE or Puncture Limit IE, the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

- [TDD - If the IE includes any UL DPCH To Add IE, UL DPCH To Add LCR IE, UL DPCH To Add 7.68Mcps IE, DL DPCH To Add 7.68Mcps IE, DL DPCH To Add LCR IE, or DL DPCH To Add IE, the Node B shall include this DPCH in the new configuration.]

- [TDD - If the IE includes any UL DPCH To Delete IE or DL DPCH To Delete IE, the Node B shall remove this DPCH in the new configuration.]

- [TDD - If the IE includes any UL DPCH To Modify IE or DL DPCH To Modify IE and includes any of the Repetition Period IE, Repetition Length IE or TDD DPCH Offset IE, the message includes UL/DL Timeslot Information and includes any of the [3.84Mcps TDD - Midamble Shift And Burst Type IE], [1.28Mcps TDD - Midamble Shift LCR IE], [7.68Mcps TDD - Midamble Shift And Burst Type 7.68Mcps IE], or TFCI Presence IE or the message includes UL/DL Code information and includes [3.84Mcps TDD - TDD Channelisation Code IE], [1.28Mcps TDD - TDD Channelisation Code LCR IE], [7.68Mcps TDD - TDD Channelisation Code 7.68Mcps IE], [1.28Mcps TDD - TDD UL DPCH Time Slot Format LCR IE or TDD DL DPCH Time Slot Format LCR IE], the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]

- [1.28Mcps TDD - If the UL CCTrCH To Modify IE includes the UL SIR Target IE, the Node B shall use the value for the UL inner loop power control according [19] and [21] when the new configuration is being used.]

- [1.28Mcps TDD - If the UL CCTrCH to Modify IE includes the TDD TPC UL Step Size IE, the Node B shall apply this value to the uplink TPC step size in the new configuration.]

- [TDD - If the DL CCTrCH to Modify IE includes the TDD TPC DL Step Size IE, the Node B shall apply this value to the downlink TPC step size in the new configuration.]

- [1.28Mcps TDD - If the DL DPCH To Modify Per RL IE includes the TDD TPC DL Step Size IE and the RL ID IE in the DL DPCH To Modify Per RL IE is same as the HS-PDSCH RL ID IE, the Node B shall apply this value to the HS-SCCH TPC step size in the new configuration.]

- [1.28Mcps TDD - If the UL Timeslot Information LCR IE includes the PLCCH Information IE, the Node B shall delete / add / modify the PLCCH assignment according to the content when the new configuration is used.]

[TDD - UL/DL CCTrCH Addition]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any UL CCTrCH To Add IE or DL CCTrCH To Add IE, the Node B shall include this CCTrCH in the new configuration.]

[TDD - If the UL/DL CCTrCH To Add IE includes any [3.84Mcps TDD - UL/DL DPCH Information IE] [1.28Mcps TDD - UL/DL DPCH Information LCR IE] [7.68Mcps TDD - TDD Channelisation Code 7.68Mcps IE], the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]
Node B shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD - If the UL CCTrCH To Add IE includes the TDD TPC UL Step Size IE, the Node B shall apply the uplink TPC step size in the new configuration.]

[1.28Mcps TDD - The Node B shall use the UL SIR Target IE in the UL CCTrCH To Add IE as the UL SIR value for the inner loop power control for this CCTrCH according [19] and [21] in the new configuration.]

[1.28Mcps TDD - If the DL DPCH To Add Per RL IE includes the TDD TPC DL Step Size IE and the RL ID IE in the DL DPCH To Add Per RL IE is same as the HS-PDSCH RL ID IE, the Node B shall apply this value to the HS-SCCH TPC step size in the new configuration. If no TDD TPC DL Step Size IE is included in the DL DPCH To Add Per RL IE, the value of HS-SCCH TPC Step Size IE should applied to the HS-SCCH TPC step size in the new configuration.]

[1.28Mcps TDD - If the UL Timeslot Information LCR IE includes the PLCCH Information IE, the Node B shall add the PLCCH assignment when the new configuration is used.]

[TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be deleted, the Node B shall remove this CCTrCH in the new configuration.]

**DL Power Control:**

- [FDD - If the RL Information IE includes the DL Reference Power IEs and the power balancing is active, the Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported, when the new configuration has been activated, according to subclause 8.3.7, using the DL Reference Power IE. If the CFN modulo the value of the Adjustment Period IE is not equal to 0, the power balancing continues with the old reference power until the end of the current adjustment period, and the updated reference power shall be used from the next adjustment period.]

[TDD - DSCH Addition/Modification/Deletion]:

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any DSCH To Add, DSCH To Modify or DSCH To Delete IE, then the Node B shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

[TDD - The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the Transport Layer Address IE and the Binding ID IE for the transport bearer to be established for each DSCH.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the TNL QoS IE in the DSCH TDD Information IE and if ALCAP is not used, the Node B may use the TNL QoS IE to determine the transport bearer characteristics to apply in the uplink for the related DSCH.]

[TDD - USCH Addition/Modification/Deletion]:

- [TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified/deleted then the Node B shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]

- [TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified, if the TNL QoS IE is included and if ALCAP is not used, the Node B may use the TNL QoS IE to determine the transport bearer characteristics to apply between the Node B and the CRNC for the related USCHs.]

- [TDD - The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the Transport Layer Address IE and the Binding ID IE for the transport bearer to be established for each USCH.]

**RL Information:**
If the RADIO LINK RECONFIGURATION PREPARE message includes the *RL Information* IE, the Node B shall treat it as follows:

- **[FDD - When more than one DL DPDCCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCCHs according to [8]. When $p$ number of DL DPDCCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "PhCH number 1", the second to "PhCH number 2", and so on until the $p$th to "PhCH number $p$.]**

- **[FDD - If the *RL Information* IE includes a DL Code Information IE, the Node B shall apply the values in the new configuration.]**

- **[FDD - If the *RL Information* IE contains the Transmission Gap Pattern Sequence Code Information IE in the DL Code Information IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]**

- **[FDD - If the *RL Information* IE includes the Maximum DL Power and/or the Minimum DL Power IEs, the Node B shall apply the values in the new configuration. During compressed mode, the $d_{p,curr}$ as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]**

- **[3.84 Mcps TDD and 7.68Mcps TDD - If the DL CCTrCH To Add IE is included, the Node B shall determine the maximum CCTrCH DL power for the DCH type CCTrCH by the following rule: If the CCTrCH Maximum DL Transmission Power IE is included for that CCTrCH, then the Node B shall use that power for the maximum CCTrCH DL power, otherwise the maximum CCTrCH DL power is the Maximum Downlink Power IE included in the *RL Information* IE. If no Maximum Downlink Power IE is included (even if CCTrCH Maximum DL Transmission Power IEs are included), any maximum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]**

- **[3.84 Mcps TDD and 7.68Mcps TDD - If the DL CCTrCH To Add IE is included, the Node B shall determine the minimum CCTrCH DL power for the DCH type CCTrCH by the following rule: If the CCTrCH Minimum DL Transmission Power IE is included for that CCTrCH, then the Node B shall use that power for the minimum CCTrCH DL power, otherwise the minimum CCTrCH DL power is the Minimum Downlink Power IE included in the *RL Information* IE. If no Minimum Downlink Power IE is included (even if CCTrCH Minimum DL Transmission Power IEs are included), any minimum DL power stored for already existing DCH type CCTrCHs for this Node B Communication Context shall be applied.]**

- **[3.84 Mcps TDD and 7.68Mcps TDD - If the DL CCTrCH To Modify IE is included and Maximum CCTrCH DL Power to Modify IE and/or Minimum CCTrCH DL Power to Modify IE are included, the Node B shall apply the values in the new configuration for this DCH type CCTrCH. If the *RL Information* IE includes Maximum Downlink Power and/or the Minimum Downlink Power IEs, the Node B shall apply the values for all other DCH type CCTrCHs of the radio link.]**

- **[1.28 Mcps TDD - If the DL CCTrCH To Add IE is included, the Node B shall determine the maximum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the Maximum DL Power IE is included in the DL Timeslot Information LCR IE for that timeslot, then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the Maximum Downlink Power IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a higher power on any applicable DL DPCH. If no Maximum Downlink Power IE is included, any maximum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]**

- **[1.28 Mcps TDD - If the DL CCTrCH To Add IE is included, the Node B shall determine the minimum DL power for each timeslot within a DCH type CCTrCH by the following rule: If the Minimum DL Power IE is included in the DL Timeslot Information LCR IE for that timeslot, then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the Minimum Downlink Power IE included in the *RL Information* IE. The Node B shall store this value and not transmit with a lower power on any applicable DL DPCH. If no Minimum Downlink Power IE is included, any minimum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]**

- **[1.28 Mcps TDD - If the DL CCTrCH To Modify IE is included and Maximum DL Power to Modify LCR IE and/or Minimum DL Power to Modify LCR IE are included, the Node B shall apply the values in the new configuration for this timeslot, if the *RL Information* IE includes Maximum Downlink Power and/or the Minimum Downlink Power IEs, the Node B shall apply the values in the new configuration for all other timeslots.]**
- [3.84 Mcps TDD and 7.68 Mcps TDD - If the RL Information IE includes the Initial DL Transmission Power IE, the Node B shall determine the initial CCTrCH DL power for each DCH type CCTrCH by the following rule: If the CCTrCH Initial DL Transmission Power IE is included for that CCTrCH, then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the Initial DL Transmission Power IE included in the RL Information IE. The Node B shall apply the determined initial CCTrCH DL power to the transmission on each DPCH of the CCTrCH when starting transmission on a new CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no Initial DL Transmission Power IE is included with a new CCTrCH (even if CCTrCH Initial DL Transmission Power IEs are included), the Node B shall use any transmission power level currently used on already existing CCTrCHs when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 4.2.3.4).]

- [3.84 Mcps TDD and 7.68 Mcps TDD - The initial power, maximum power, and minimum power for a DSCH type CCTrCH to be added or modified, shall be determined as follows:
  - If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum, maximum, and initial power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.
  - If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum and initial powers, however, are subject to control by the CRNC via the frame protocol].

- [1.28 Mcps TDD - If the RL Information IE includes the Initial DL Transmission Power IE, the Node B shall determine the initial DL power for each timeslot in a DCH type CCTrCH by the following rule: If the Initial DL Transmission Power IE is included in the DL Timeslot Information LCR IE, then the Node B shall use that power for the initial DL power, otherwise the initial DL power is the Initial DL Transmission Power IE included in the RL Information IE. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the CCTrCH when starting transmission until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no Initial DL Transmission Power IE is included, the Node B shall use any transmission power level currently used on already existing timeslots for this Node B Communication Context. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]

- [1.28 Mcps TDD - If the RL Information IE includes the Initial DL Transmission Power IE, the Node B shall determine the initial DL power for each timeslot within the DSCH type CCTrCH by the following rule: If both the CCTrCH Initial DL Transmission Power IE and the DL Time Slot ISCP Info LCR IE are included then the Node B shall use that power for the PDSCH power, otherwise the PDSCH power is the Initial DL Transmission Power IE included in the RL Information IE. If DL Time Slot ISCP info LCR IE is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], it shall reduce the DL TX power in those downlink timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged. The Node B shall apply the given power to the transmission on each PDSCH and on each timeslot of the CCTrCH when starting transmission on a new CCTrCH until the UL synchronisation on the Uu interface is achieved for the CCTrCH. If no Initial DL Transmission Power IE is included with a new CCTrCH (even if CCTrCH Initial DL Transmission Power IEs are included), the Node B shall use any transmission power level currently used on already existing RL/timeslots when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[21], subclause 5.1.2.4).]

- [1.28 Mcps TDD - If the DL CCTrCH To Add IE is included, the Node B shall determine the maximum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the CCTrCH Maximum DL Transmission Power IE is included then the Node B shall use that power for the maximum DL power, otherwise the maximum DL power is the Maximum Downlink Power IE included in the RL Information IE. The Node B shall store this value and not transmit with a higher power on any applicable DL PDSCH. If no Maximum Downlink Power IE is included, any maximum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]

- [1.28 Mcps TDD - If the DL CCTrCH To Add IE is included, the Node B shall determine the minimum DL power for each timeslot within a DSCH type CCTrCH by the following rule: If the CCTrCH Minimum DL Transmission Power IE is included then the Node B shall use that power for the minimum DL power, otherwise the minimum DL power is the Minimum Downlink Power IE included in the RL Information IE. The Node B
shall store this value and not transmit with a lower power on any applicable DL PDSCH. If no Minimum Downlink Power IE is included, any minimum DL power stored for already existing timeslots for this Node B Communication Context shall be applied.]

- [1.28 Mcps TDD - If the DL CCTrCH To Modify IE is included and the Maximum CCTrCH DL Power to Modify IE and/or the Minimum CCTrCH DL Power to Modify IE are included, the Node B shall apply the values in the new configuration for this DSCH type CCTrCH, if the RL Information IE includes Maximum Downlink Power and/or the Minimum Downlink Power IEs, the Node B shall apply the values in the new configuration for all other timeslots.]

- [FDD - If the RL Information IE includes the DL DPCH Timing Adjustment IE, the Node B shall adjust the timing of the radio link accordingly in the new configuration.]

- [1.28 Mcps TDD - If the RL Information IE message contains the Uplink Synchronisation Parameters LCR IE, the Node B shall use the indicated values of Uplink Synchronisation Stepsize IE and Uplink Synchronisation Frequency IE when evaluating the timing of the UL synchronisation.]

- [FDD - If the RL Information IE includes the F-DPCH Slot Format IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to [7].]

[TDD - PDSCH RL ID]:

- [TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the PDSCH RL ID IE then in the new configuration the Node B shall use the PDSCH and/or PUSCH in this radio link.]

Signalling bearer rearrangement:

If the RADIO LINK RECONFIGURATION PREPARE message includes the Signalling Bearer Request Indicator IE the Node B shall allocate a new Communication Control Port for the control of the Node B Communication Context and include the Target Communication Control Port ID IE in the RADIO LINK RECONFIGURATION READY message.

HS-DSCH Setup:

If the HS-DSCH Information IE is present in the RADIO LINK RECONFIGURATION PREPARE message, then:

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.

- The Node B shall include the HARQ Memory Partitioning IE in the [FDD - HS-DSCH FDD Information Response IE] [TDD - HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION READY message. [FDD - The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.] [1.28 Mcps TDD - The HARQ Memory Partitioning IE shall either contain the HARQ Memory Partitioning Information Extension For MIMO IE or the Number of Processes IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the HS-DSCH Information IE.]

- If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-hs Guaranteed Bit Rate IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the Discard Timer IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, then the Node B shall ignore the SID IE and MAC-d PDU Size IE in the MAC-d PDU Size Index IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related HSDPA Priority Queue.

- The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the [FDD - HS-DSCH FDD Information Response IE] [TDD - HS-DSCH TDD Information Response IE] in the RADIO LINK
RECONFIGURATION READY message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK RECONFIGURATION PREPARE message includes **HS-DSCH MAC-d PDU Size Format IE** in the **HS-DSCH Information IE** set to "Flexible MAC-d PDU Size", then Node B shall only set in the **HS-DSCH Initial Capacity Allocation IE** the values for the peer of **Scheduling Priority Indicator IE** and **Maximum MAC-d PDU Size Extended IE** to the values of the corresponding peer received in RADIO LINK RECONFIGURATION PREPARE in the **HS-DSCH MAC-d Flows Information IE** in the **HS-DSCH Information IE** for a Priority Queue including **Scheduling Priority Indicator IE** and **Maximum MAC-d PDU Size Extended IE**.

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the **HS-SCCH Power Offset IE** in the **HS-DSCH Information IE**, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the **Measurement Power Offset IE** in the **HS-DSCH Information IE**, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the **HS-SCCH Specific Information Response IE** in the **HS-DSCH FDD Information Response IE** in the RADIO LINK RECONFIGURATION READY message.]

- [TDD - The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD - **HS-SCCH Specific Information Response IE**] [1.28Mcps TDD - **HS-SCCH Specific Information Response LCR IE**] [7.68Mcps TDD - **HS-SCCH Specific Information Response 7.68Mcps IE**] in the **HS-DSCH TDD Information Response IE** in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the **HARQ Preamble Mode IE** in the **HS-DSCH Information IE**, then the Node B shall use the indicated HARQ Preamble Mode as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the **HARQ Preamble Mode Activation Indicator IE** in the **HS-DSCH Information Response IE** in the RADIO LINK RECONFIGURATION READY message. If the **HARQ Preamble Mode IE** is not included or if the mode 0 is applied, then the Node B shall not include the **HARQ Preamble Mode Activation Indicator IE** in the **HS-DSCH Information Response IE** in the RADIO LINK RECONFIGURATION READY message.]

- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the **HS-SICH SIR Target IE** in the **HS-DSCH Information IE**, the Node B shall use this value to determine the HS-SICH SIR Target. The **HS-SICH SIR Target IE** indicates the received UL SIR target of HS-SICH NACK for this UE.]

- If the RADIO LINK RECONFIGURATION PREPARE message includes the **HS-DSCH MAC-d PDU Size Format IE** in the **HS-DSCH Information IE**, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].

- If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.

- [FDD - If the **MIMO Activation Indicator IE** is included in the **HS-DSCH FDD Information IE**, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the **MIMO N/M Ratio IE** in the **HS-DSCH FDD Information Response IE** in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the **Sixtyfour QAM Usage Allowed Indicator IE** is included in the **HS-DSCH FDD Information IE**, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the **Sixtyfour QAM DL Usage Indicator IE** in the **HS-DSCH FDD Information Response IE** in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the **Sixtyfour QAM Usage Allowed Indicator IE** is included in the **HS-DSCH FDD Information IE** with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the **HS-DSCH MAC-d PDU Size Format IE** set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the **HS-DSCH TB Size Table Indicator IE** in the RADIO LINK RECONFIGURATION READY
message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

- [FDD - If the **UE with enhanced HS-SCCH support indicator** IE is included in the **HS-DSCH FDD Information** IE, then the Node B may use:]
  - [FDD - a different HS-SCCH in consecutive TTIs for this UE]
  - [FDD - HS-SCCH orders for the case of HS-SCCH-less operation to this UE]
- [FDD - If the **UE Support Indicator Extension** IE is included in the **HS-DSCH FDD Information** IE the Node B may use the supported HSDPA functions for this UE.]
- [1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK RECONFIGURATION PREPARE message includes the **Number of Supported Carriers** IE in the **UE Capabilities Information** IE in the **HS-DSCH Information** IE, the Node B shall use this information to allocate HSDPA resources over multiple frequencies for UE.]
- [1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK RECONFIGURATION PREPARE message includes the **Multi-carrier HS-DSCH Physical Layer Category** IE in the **UE Capabilities Information** IE in the **HS-DSCH Information** IE, the Node B shall use this information together with the **HS-SCCH Physical Layer Category** IE in the **UE Capabilities Information** IE in the **HS-DSCH Information** IE to allocate HSDPA resources over multiple carriers for the UE.]}

- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the **UE TS0 Capability LCR** IE in the **UE Capabilities Information** IE in the **HS-DSCH Information** IE, the Node B may use this information in HSDPA resources allocation for the UE.]
- [1.28Mcps TDD - For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple frequencies and include the **HS-SCCH Specific Information Response LCR per UARFCN** IE in the **HS-DSCH TDD Information Response** IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD - For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall include the **HARQ Memory Partitioning per UARFCN** IE in the **HS-DSCH TDD Information Response** IE in the RADIO LINK RECONFIGURATION READY message.]
- [1.28Mcps TDD - For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B may indicate the number of multiple frequencies actually used by the UE and include the **Multi-Carrier number** IE in the **HS-DSCH TDD Information Response** IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28 Mcps TDD - If the **MIMO Activation Indicator** IE is included in the **HS-DSCH TDD Information** IE, then, the Node B shall activate the MIMO mode for the HS-DSCH Radio Link, decide the SF mode for HS-PDSCH dual stream and include the **MIMO SF Mode for HS-PDSCH dual stream** IE in the **HS-DSCH TDD Information Response** IE in the RADIO LINK RECONFIGURATION READY message.]

- If the RADIO LINK RECONFIGURATION PREPARE message includes **DL RLC PDU Size Format** IE for a Priority Queue in the **HS-DSCH MAC-d Flows Information** IE in the **HS-DSCH Information** IE, the **DL RLC PDU Size Format** IE may be used by the Node B to determine the allocated capacity on user plane as described in [24].
- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the **UE Aggregate Maximum Bit Rate Enforcement Indicator** IE in the **Priority Queue Information** IE in the **HS-DSCH MAC-d Flows Information** IE in the **HS-DSCH Information** IE, the NodeB shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]
- [FDD - If the **Single Stream MIMO Activation Indicator** IE is included in the **HS-DSCH FDD Information** IE, then the Node B shall activate the Single Stream MIMO mode for the HS-DSCH Radio Link.]

**[FDD – Secondary Serving HS-DSCH Setup:]**

**[FDD – If the C-ID IE is present in the Additional HS Cell Information RL Reconf Prep IE in the RADIO LINK RECONFIGURATION PREPARE message, then:]**
- [FDD – The Node B shall setup the requested HS-PDSCH resources on the secondary serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-SCCH Power Offset IE in the HS-DSCH FDD Secondary Serving Information IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the Single Stream MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B may if the value is set to “allowed” use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the Sixtyfour QAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE with value set to “not allowed”, then the Node B shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]

- [FDD - If, in the new configuration, the concerned Node B Communication Context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH Radio Link, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

- [FDD - If the Diversity Mode IE is included in the HS-DSCH FDD Secondary Serving Information IE, the Node B shall apply cell specific transmit diversity configuration and if the Diversity Mode IE is not set to "None" the Node B shall activate/deactivate the Transmit Diversity for the secondary serving HS-DSCH Radio Link in accordance with the Transmit Diversity Indicator IE in the HS-DSCH FDD Secondary Serving Information IE.]

Intra-Node B Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-PDSCH RL ID IE, this indicates the new Serving HS-DSCH Radio Link:

- In the new configuration the Node B shall de-allocate the HS-PDSCH resources of the old Serving HS-PDSCH Radio Link and allocate the HS-PDSCH resources for the new Serving HS-PDSCH Radio Link.

- The Node B may include the HARQ Memory Partitioning IE in the [FDD - HS-DSCH FDD Information Response IE] [TDD - HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION READY message. [FDD - The HARQ Memory Partitioning IE may contain the HARQ Memory Partitioning Information Extension For MIMO IE.] [1.28Mcps TDD - The HARQ Memory Partitioning IE may contain the HARQ Memory Partitioning Information Extension For MIMO IE.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
- [TDD - The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD - HS-SCCH Specific Information Response IE] [1.28Mcps TDD - HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD - HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

- If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.

- If a reset of the MAC-hs is not required the Node B shall include the MAC-hs Reset Indicator IE in the RADIO LINK RECONFIGURATION READY message.

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify IE and the value is set to "allowed" or if HS-DSCH Information To Modify IE is not included and the Node B Communication Context is configured with Sixtyfour QAM allowed for the serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM in the new configuration, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]


- [FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the C-ID IE and the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Reconf Prep IE and the secondary serving HS-DSCH Radio Link has been configured in the Node B, then the HS-PDSCH RL ID IE indicates the new secondary serving HS-DSCH Radio Link:]

  - [FDD - In the new configuration the Node B shall de-allocate the HS-PDSCH resources of the old secondary serving HS-PDSCH Radio Link and allocate the HS-PDSCH resources for the new secondary serving HS-PDSCH Radio Link. The Node B shall remove the old secondary serving HS-PDSCH Radio Link if no E-DCH resources are allocated to the RL. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]

  - [FDD - The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

  - [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE and the value is set to "allowed" or if HS-DSCH FDD Secondary Serving Information To Modify IE is not included and the Node B Communication Context is configured with Sixtyfour QAM allowed for the secondary serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM for the new secondary serving HS-DSCH Radio Link, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD - Additional Serving E-DCH Radio Link Change to an existing additional non serving E-DCH RL:]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the C-ID IE in the Additional HS Cell Information RL Reconf Prep IE and an additional non serving E-DCH RL exists in the cell indicated by the C-ID IE, the HS-PDSCH RL ID IE in the Additional HS Cell Information RL Reconf Prep IE indicates the new Additional Serving E-DCH Radio Link.]

  - [FDD - If the old Additional Serving E-DCH RL is within this Node B, the Node B shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]

  - [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]

  - [FDD - The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information
Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]

- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - The Node B may include the E-RGCH/E-HICH Channelisation Code IE and/or the E-HICH Signature Sequence IE and/or the E-RGCH Release Indicator IE in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message for every E-DCH Radio Links on secondary UL frequency in the Node B.]

[FDD - Additional Serving E-DCH Radio Link Change to a new RL:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Additional E-DCH RL Specific Information To Add IE in the Additional E-DCH Configuration Change Information IE in the Additional E-DCH Cell Information RL Reconf Prep IE and the C-ID IE in the Additional HS Cell Information RL Reconf Prep IE and there is no radio links in the cell indicated by the C-ID IE for the Node B Communication Context, the HS-PDSCH RL ID IE indicates the new Additional Serving E-DCH Radio Link on secondary UL frequency.]

- [FDD - If the old Additional Serving E-DCH RL is within this Node B, the Node B shall de-allocate the E-AGCH resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]

- [FDD - In the new configuration the Node B shall allocate the E-DCH resources for the new additional serving E-DCH Radio Link on the secondary UL frequency. Non cell specific E-DCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]

- [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - The Node B may include in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]

- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Information To Modify IE, then:

- The Node B shall include the HS-DSCH Initial Capacity Allocation IE for every HS-DSCH MAC-d flow being modified for which the establishment of one or several new Priority Queues was requested, if the Node B allows the CRNC to start the transmission of MAC-d PDUs for the Priority Queue(s) being established before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK RECONFIGURATION PREPARE message includes HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information To Modify IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION PREPARE in the HS-DSCH
Information To Modify IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-hs Guaranteed Bit Rate IE in the HS-DSCH Information To Modify IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the Discard Timer IE for a Priority Queue in the HS-DSCH Information To Modify IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the MAC-d PDU Size Index IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-hs Window Size IE or T1 IE in the HS-DSCH Information To Modify IE, then the Node B shall use the indicated values in the new configuration for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-d PDU Size Index IE in the Modify Priority Queue choice, the Node B shall delete the previous list of MAC-d PDU Size Index values for the related HSDPA Priority Queue and use the MAC-d PDU Size Index values indicated in the MAC-d PDU Size Index IE in the new configuration.

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the CQI Feedback Cycle k IE, the CQI Repetition Factor IE, the ACK-NACK Repetition Factor IE, the ACK Power Offset IE or the NACK Power Offset IE or the CQI Power Offset IE in the HS-DSCH Information To Modify IE, then the Node B shall use the indicated CQI Feedback Cycle k value, the CQI Repetition Factor or the ACK-NACK Repetition Factor, ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]

- [FDD - If the HS-SCCH Power Offset IE is included in the HS-DSCH Information To Modify IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes Measurement Power Offset IE in the HS-DSCH Information IE or the HS-DSCH Information To Modify IE, then the Node B shall use the measurement power offset as described in [10] subclause 6A.2.]

- [TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the TDD ACK NACK Power Offset IE in the HS-DSCH Information To Modify IE, the Node B shall use the indicated power offset in the new configuration.]

- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-SICH SIR Target IE in the HS-DSCH Information To Modify IE, the Node B shall use this value to the SIR Target in the new configuration. The HS-SICH SIR Target IE indicates the received UL SIR target of HS-SICH NACK for this UE.]

- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-SICH TPC step size IE in the HS-DSCH Information To Modify IE, the Node B shall use this value to the HS-SICH TPC step size in the new configuration.]

- [1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK RECONFIGURATION PREPARE message includes the Multi-carrier HS-DSCH Physical Layer Category IE in the UE Capabilities Information IE in the HS-DSCH Information To Modify IE, the Node B shall use this information together with the HS-DSCH Physical Layer Category IE in the UE Capabilities Information IE in the HS-DSCH Information To Modify IE to allocate HSDPA resources over multiple carriers for the UE.]

- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the UE TS0 Capability LCR IE in the UE Capabilities Information IE in the HS-DSCH Information To Modify IE, the Node B may use this information in HSDPA resources allocation for the UE.]

- [FDD - If the HS-DSCH Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the Node B may modify the HS-SCCH codes corresponding to the HS-DSCH. The Node B shall then report the...
codes which are used in the new configuration specified in the **HS-SCCH Specific Information Response IE** in the RADIO LINK RECONFIGURATION READY message.]

- [TDD - If the **HS-DSCH Information To Modify IE** includes the **HS-SCCH Code Change Grant IE**, then the Node B may modify the HS-SCCH parameters corresponding to the HS-DSCH. The Node B shall then report the values for the parameters which are used in the new configuration specified in the [3.84Mcps TDD - HS-SCCH Specific Information Response [1.28Mcps TDD - HS-SCCH Specific Information Response LCR [7.68Mcps TDD - HS-SCCH Specific Information Response 7.68Mcps] IEs in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the **HS-DSCH Information To Modify IE** includes the **HS-PDSCH Code Change Grant IE**, then the Node B may modify the HS-PDSCH codes corresponding to the HS-DSCH. The Node B shall then report the codes which are used in the new configuration specified in the **Continuous Packet Connectivity HS-SCCH less Information Response IE** in the RADIO LINK RECONFIGURATION READY message. If the concerned Node B is not in Continuous Packet Connectivity HS-SCCH less mode, the RNC shall not include the **HS-PDSCH Code Change Grant IE** in the **HS-DSCH Information To Modify IE**.

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the **HARQ Preamble Mode IE** in the **HS-DSCH Information To Modify IE**, then the Node B shall use the indicated HARQ Preamble Mode in the new configuration as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the **HARQ Preamble Mode Activation Indicator IE** in the **HS-DSCH Information Response IE** in the RADIO LINK RECONFIGURATION READY message. If the **HARQ Preamble Mode IE** is not included or if the mode 0 is applied, then the Node B shall not include the **HARQ Preamble Mode Activation Indicator IE** in the **HS-DSCH Information Response IE** in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the **HS-DSCH MAC-d PDU Size Format IE** in the **HS-DSCH Information To Modify IE**, then the Node B shall use, in the new configuration, the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].

- If the **TNL QoS IE** is included for a MAC-d flow and if ALCAP is not used, the **TNL QoS IE** may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the **HS-DSCH Physical Layer Category IE** in the **HS-DSCH Information To Modify IE**, the Node B shall use this information in the new configuration and may include the **HARQ Memory Partitioning IE** in the RADIO LINK RECONFIGURATION READY message. The **HARQ Memory Partitioning IE** may contain the **HARQ Memory Partitioning Information Extension For MIMO IE**.

- [FDD - If the **MIMO Mode Indicator IE** is included in the **HS-DSCH Information To Modify IE**, then the Node B shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in accordance with the **MIMO Mode Indicator IE**.]

- [FDD - If the **MIMO Mode Indicator IE** is set to "Activate", then the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the **MIMO N/M Ratio IE** in the **HS-DSCH FDD Information Response IE** in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the **Sixtyfour QAM Usage Allowed Indicator IE** is included in the **HS-DSCH Information To Modify IE**, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the **SixtyfourQAM DL Usage Indicator IE** in the **HS-DSCH FDD Information Response IE** in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the **Sixtyfour QAM Usage Allowed Indicator IE** is included in the **HS-DSCH Information To Modify IE** with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]

- [FDD - If MAC-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the Node B shall include the **HS-DSCH TB Size Table Indicator IE** in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

- [FDD - Any secondary serving HS-DSCH that was applied in the old configuration shall remain in the new configuration unless it is explicitly removed.]
[FDD - If secondary serving HS-DSCH is applied also in the new configuration, then any changes related to parameters that are common for both the serving and the secondary serving HS-DSCH should be applied also for the secondary serving HS-DSCH.]

- [1.28 Mcps TDD - For a multi-frequency cell, if the HS-DSCH Information To Modify IE includes the HS-SCCH Code Change Grant IE, and the Node B allows UE to use HSDPA resources distributed over multiple frequencies, then the Node B may modify the HS-SCCH Codes corresponding to the HS-DSCH over multiple frequencies, the Node B shall then report the codes which are used in the new configuration specified in the HS-SCCH Specific Information Response LCR per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Physical Layer Category IE in the HS-DSCH Information To Modify IE, the Node B shall use this information in the new configuration and may include the HARQ Memory Partitioning IE in the RADIO LINK RECONFIGURATION READY message. The HARQ Memory Partitioning IE may contain the HARQ Memory Partitioning Information Extension For MIMO IE.]

- [1.28 Mcps TDD - If the HS-DSCH Information To Modify IE includes the HS-SCCH Power Offset IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]

- [FDD - If the UE Support Indicator Extension IE is included in the HS-DSCH Information To Modify IE, the Node B may use the supported HSDPA functions for this UE.]

- [FDD - If the Single Stream MIMO Mode Indicator IE is included in the HS-DSCH Information To Modify IE, then the Node B shall activate/deactivate the Single Stream MIMO mode for the HS-DSCH Radio Link in accordance with the Single Stream MIMO Mode Indicator IE.]

[FDD – Secondary Serving HS-DSCH Modification:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH FDD Secondary Serving Information To Modify IE in the Additional HS Cell Information RL Reconf Prep IE, then:]

- [FDD - If the HS-SCCH Power Offset IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes Measurement Power Offset IE in the HS-DSCH FDD Secondary Serving Information IE or the HS-DSCH FDD Secondary Serving Information To Modify IE, then the Node B shall use the measurement power offset as described in [10] subclause 6A.2.]

- [FDD - If the HS-DSCH FDD Secondary Serving Information To Modify IE includes the HS-SCCH Code Change Grant IE, then the Node B may modify the secondary serving HS-SCCH codes corresponding to the HS-DSCH. The Node B shall then report the codes which are used in the new configuration specified in the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IEin the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the MIMO Mode Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE, then the Node B shall activate/deactivate the MIMO mode for the secondary serving HS-DSCH Radio Link in accordance with the MIMO Mode Indicator IE.]

- [FDD - If the MIMO Mode Indicator IE is set to "Activate", then the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message.]
[FDD - If the Single Stream MIMO Mode Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE, then the Node B shall activate/deactivate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link in accordance with the Single Stream MIMO Mode Indicator IE.]

[FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE, then the Node B may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE with value set to "not allowed", then the Node B shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]

[FDD - If, in the new configuration, the concerned Node B Communication Context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH Radio Link, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION READY message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

[FDD - If the Diversity Mode IE is included, then:]

- [FDD - the Node B shall apply cell specific transmit diversity configuration for the secondary serving HS-DSCH radio link according to Diversity Mode IE and Transmit Diversity Indicator IE in the HS-DSCH FDD Secondary Serving Information To Modify IE]

- [FDD - If the Diversity Mode IE is not set to "None", the DRNS shall apply diversity for the secondary serving HS-DSCH radio link according to the value given in the Transmit Diversity Indicator IE in the HS-DSCH FDD Secondary Serving Information To Modify IE.]

- [FDD - If the Non Cell Specific Tx Diversity IE equals "Tx Diversity" is included, the Node B shall apply non cell specific transmit diversity configuration and reconfigure the transmit diversity setting for the secondary serving HS-DSCH radio link to the same value as defined for the serving HS-DSCH radio link in the new configuration.]

[FDD – Secondary Serving HS-DSCH Removal:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Secondary Serving Remove IE in the Additional HS Cell Information RL Reconf Prep IE, then the indicated secondary serving HS-DSCH Radio Link shall be removed.]

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any HS-DSCH MAC-d Flows To Add or HS-DSCH MAC-d Flows To Delete IEs, then the Node B shall use this information to add/delete the indicated HS-DSCH MAC-d flows. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.

If the RADIO LINK RECONFIGURATION PREPARE message includes an HS-DSCH MAC-d Flows To Delete IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the HS-DSCH configuration from the Node B Communication Context and release the HS-PDSCH resources.

If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH MAC-d Flows To Add IE, then:

- The Node B shall include the HS-DSCH Initial Capacity Allocation IE in the RADIO LINK RECONFIGURATION READY message for every HS-DSCH MAC-d flow being added, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If Node B Communication Context is configured to use the "Flexible MAC-d PDU Size" format for the HS-DSCH, then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION PREPARE message in the HS-DSCH MAC-d Flows To Add IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.
- If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-hs Guaranteed Bit Rate IE in the HS-DSCH MAC-d Flows To Add IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the Discard Timer IE for a Priority Queue in the HS-DSCH MAC-d Flows To Add IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum MAC-d PDU Size Extended IE for a Priority Queue in the HS-DSCH MAC-d Flows To Add IE, then the Node B shall ignore the SID IE and MAC-d PDU Size IE in the MAC-d PDU Size Index IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related HSDPA Priority Queue.

- The Node B may include the HARQ Memory Partitioning IE in the RADIO LINK RECONFIGURATION READY message. [FDD - The HARQ Memory Partitioning IE may contain the HARQ Memory Partitioning Information Extension For MIMO IE.]

- If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.

- [1.28Mcps TDD - For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B may include the HARQ Memory Partitioning per UARFCN IE in the RADIO LINK RECONFIGURATION READY message.]

- If the RADIO LINK RECONFIGURATION PREPARE message includes DL RLC PDU Size Format IE for a Priority Queue in the HS-DSCH MAC-d Flows To Add IE, the DL RLC PDU Size Format IE may be used by the Node B to determine the allocated capacity on user plane as described in [24].

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the UE Aggregate Maximum Bit Rate Enforcement Indicator IE for a Priority Queue in the HS-DSCH MAC-d Flows To Add IE, the NodeB shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]

[FDD – HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Preconfiguration Setup IE in the RL Information IE the Node B shall if supported preconfigure the indicated cells for Enhanced HS Serving Cell Change according to [49]: ]

- [FDD – The Node B shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the C-ID IE part of the RL Information IE in the RADIO LINK RECONFIGURATION PREPARE message. The list of secondary serving HS-DSCH cells is designated by the list of C-IDs in the HS-DSCH Preconfiguration Setup IE part of the RL Information IE in the RADIO LINK RECONFIGURATION PREPARE message. ]

- [FDD – The number of HS-SCCH codes to preconfigure for each cell may be optionally specified: ]

- [FDD – by the Num Primary HS-SCCH Codes IE in the HS-DSCH Preconfiguration Setup IE, for the primary serving HS-DSCH cell]

- [FDD – by the Num Secondary HS-SCCH Codes IE in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE for each of the secondary serving HS-DSCH cells]

- [FDD – If Num Primary HS-SCCH Codes IE or Num Secondary HS-SCCH Codes IE is not included in the message, the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in [10]. ]

- [FDD – The Node B shall return these codes in the Sets of HS-SCCH Codes IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE of the RADIO LINK RECONFIGURATION READY message. ]
[FDD – The Node B shall use the first in the numbered list of the primary serving HS-DSCH cell’s HS-SCCH codes in the HS-SCCH Preconfigured Codes IE sent to the RNC to signal the Target Cell HS-SCCH Order defined in [18].]

[FDD – The Node B shall include, in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK RECONFIGURATION READY message, IEs according to the rules defined for HS-DSCH Setup and:]

- [FDD – if HARQ Preamble Mode IE is included in the HS-DSCH Preconfiguration Setup IE the HARQ Preamble Mode Activation Indicator IE.]
- [FDD – if MIMO Activation Indicator IE is included in the HS-DSCH Preconfiguration Setup IE or in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE the MIMO N/M Ratio IE.]
- [FDD – if HS-DSCH MAC-d PDU Size Format IE is included in the HS-DSCH Preconfiguration Setup IE and set to “Flexible MAC-d PDU Size” and if Sixtyfour QAM will not be used in the preconfigured configuration the HS-DSCH TB Size Table Indicator IE for each preconfigured cell.]
- [FDD – if Sixtyfour QAM Usage Allowed Indicator IE is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell.]
- [FDD – if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE.]
- [FDD – if the UE with enhanced HS-SCCH support indicator IE is included in the HS-DSCH Preconfiguration Setup IE, then the Node B shall store this information in the preconfigured configuration.]
- [FDD – if the UE Support Indicator Extension IE is included in the HS-DSCH Preconfiguration Setup IE, then the Node B may store this information in the preconfigured configuration.]
- [FDD – The Node B shall include in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK RECONFIGURATION READY message the E-DCH FDD DL Control Channel Information containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows:]

- [FDD – The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE.]
- [FDD – The Node B may configure for the preconfigured configuration the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the serving E-DCH RL and include these values in the E-DCH FDD DL Control Channel Information IE.]
- [FDD – If the HS-DSCH Preconfiguration Setup IE includes the E-DCH Indicator IE for a secondary cell, the Node B shall include in the Additional E-DCH Preconfiguration Information IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK RECONFIGURATION READY message the E-DCH FDD DL Control Channel Information containing the preconfigured configuration of the Additional E-DCH serving cell, corresponding to the cell indicated with the E-DCH Indicator IE, according to the rules defined for Serving Additional E-DCH Radio Link Change as follows:]

- [FDD – The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE.]
- [FDD – The Node B may configure for the preconfigured configuration the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the serving Additional E-DCH RL and include these values in the E-DCH FDD DL Control Channel Information IE.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the Non-Serving Preconfiguration Setup IE in the RL Information IE and:]
- [FDD – if the choice of new Serving RL is "New Serving RL in the Node B", the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE and/or New non-serving RL E-DCH FDD DL Control Channel Information B IE in the Non-Serving RL Preconfiguration Info IE for the RL in the RADIO LINK RECONFIGURATION READY message.]

- [FDD – if the choice of new Serving RL is "New Serving RL Not in the Node B", the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information C IE in the Non-Serving RL Preconfiguration Info IE for the RL in the RADIO LINK RECONFIGURATION READY message.]

- [FDD – if the choice of new Serving RL is "New Serving RL in the Node B or New Serving RL Not in the Node B", the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE in the Non-Serving RL Preconfiguration Info IE for the RL in the RADIO LINK RECONFIGURATION READY message.]

- [FDD – if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non-serving E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – Enhanced HS Serving Cell Change:]

[FDD - Upon receipt of the RADIO LINK RECONFIGURATION PREPARE message, if the Enhanced HS Serving Cell Change is preconfigured in the Node B for the Node B Communication Context, the Node B may execute the Enhanced HS Serving Cell Change procedure according to [49]].

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Enhanced HS Serving CC Abort IE in the HS-DSCH Information To Modify IE or the HS-DSCH FDD Information IE then the Node B shall not execute the synchronized Enhanced HS Serving Cell Change procedure when performing the Intra-Node B Serving HS-DSCH Radio Link Change or, at inter Node B radio link change, the HS-DSCH Setup.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Non-Serving RL Preconfiguration Removal IE, the Node B shall remove the corresponding preconfigured E-DCH DL Control Channel Information according to the information.]

[FDD - E-DCH Setup:]

[FDD - If the E-DCH FDD Information IE is present in the RADIO LINK RECONFIGURATION PREPARE message:]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH Logical Channel Information IE in the E-DCH FDD Information IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the E-DCH Logical Channel Information IE in the E-DCH FDD Information IE, then the NodeB shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels [24] and MAC [32].]

- [FDD - If the TNL QoS IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the Node B shall use this information for the related resource allocation operation.]
- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the \textit{E-DCH Reference Power Offset} IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the \textit{E-DCH Power Offset for Scheduling Info} IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the \textit{Serving E-DCH RL} IE indicating that the Serving E-DCH RL is in this Node B:]
  - [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the \textit{E-DCH FDD DL Control Channel Information} IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - The Node B may include the \textit{Serving Grant Value} IE and \textit{Primary/Secondary Grant Selector} IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the serving E-DCH RL.]

- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the \textit{E-DCH FDD Information Response} IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the RADIO LINK RECONFIGURATION READY message for the serving E-DCH RL.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the \textit{E-DCH MAC-d Flow Multiplexing List} IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]

- [FDD - If in the RADIO LINK RECONFIGURATION PREPARE message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the \textit{HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant} IE, if included, for the related resource allocation operation.]

- [FDD - If in the RADIO LINK RECONFIGURATION PREPARE message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the \textit{Bundling Mode Indicator} IE for an E-DCH MAC-d flow in the \textit{E-DCH MAC-d Flow Specific Information} IE in the \textit{E-DCH FDD Information} IE and the \textit{Bundling Mode Indicator} IE is set to "Bundling" and the \textit{E-TTI} IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the \textit{E-DCH Maximum Bitrate} IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the \textit{E-DCH Processing Overload Level} IE, then if the Node B could not decode the E-DPCCH/E-DPDCCH for the last consecutive number of TTIs, indicated in the \textit{E-DCH Processing Overload Level} IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the \textit{E-AGCH Power Offset} IE in the \textit{RL Specific E-DCH Information} IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the \textit{E-RGCH Power Offset} IE in the \textit{RL Specific E-DCH Information} IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]
[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-HICH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the SixteenQAM UL Operation Indicator IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the SixteenQAM UL Operation Indicator IE.]

[FDD - If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]

[FDD - E-DCH Radio Link Handling:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH RL Indication IE in the RL Information IE:]

- [FDD - The Node B shall setup the E-DCH resources, as requested or as configured in the Node B communication context, on the Radio Links indicated by the E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE.]

- [FDD - The Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK RECONFIGURATION READY message for every RL indicated by the E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE.]

- [FDD - The Node B shall remove the E-DCH resources, if any, on the Radio Links, that are indicated by the E-DCH RL Indication set to "Non E-DCH".]

- [FDD - For each RL for which the E-DCH RL Indication IE is set to "E-DCH", and which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the E-DCH RL Set ID IE in the RADIO LINK RECONFIGURATION READY message. The value of the E-DCH RL Set ID IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

[FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Serving E-DCH RL IE, this indicates the new Serving E-DCH Radio Link:]

- [FDD - If the old Serving E-DCH RL is in this Node B, the Node B shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link at the activation of the new configuration.]

- [FDD - If the new Serving E-DCH RL is in this Node B:]

  - [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK RECONFIGURATION READY message.]

  - [FDD - The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the new serving E-DCH RL.]

  - [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

  - [FDD - The Node B may include the Default Serving Grant in DTX Cycle 2 IE in the RADIO LINK RECONFIGURATION READY message for the new serving E-DCH RL.]

  - [FDD - The Node B may include the E-RGCH/E-HICH Channelisation Code IE and/or the E-HICH Signature Sequence IE and/or the E-RGCH Signature Sequence IE or may alternatively include the E-RGCH Release
Indicator IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK RECONFIGURATION READY message for every E-DCH Radio Links in the Node B.]

[FDD - E-DCH Modification:]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH FDD Information To Modify IE, then:]  
- [FDD - If the E-DCH FDD Information To Modify IE contains a E-DCH MAC-d Flow Specific Information IE which includes the Allocation/Retention Priority IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum Number of Retransmissions for E-DCH IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH HARQ Power Offset FDD IE in the E-DCH FDD Information To Modify IE for an E-DCH MAC-d flow the Node B shall use this information for calculating the unquantised gain factor for an E-TFC ($\beta_{ed,j,uq}$)as defined in [10].]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH MAC-d Flow Multiplexing List IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Grant Type and it is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Grant Type and it is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information To Modify IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel.]  

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH MAC-d PDU Size Format IE in the E-DCH FDD Information To Modify IE, then the Node B shall use the indicated format in user plane frame structure for E-DCH channels [24] and MAC [32].]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Logical Channel To Add or E-DCH Logical Channel To Delete IEs, the Node B shall use this information to add/delete the indicated logical channels. When an logical channel is deleted, all its associated configuration data shall also removed.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Logical Channel To Modify IE, the Node B shall use this information to modify the indicated logical channels:]  
  - [FDD - If the E-DCH Logical Channel To Modify IE includes Scheduling Priority Indicator IE, the Node B shall apply the values in the new configuration.]  
  - [FDD - If the E-DCH Logical Channel To Modify IE includes Scheduling Information IE, the Node B shall apply the values in the new configuration.]  
  - [FDD - If the E-DCH Logical Channel To Modify IE includes MAC-es Guaranteed Bit Rate IE, the Node B shall apply the values in the new configuration.]  
  - [FDD - If the E-DCH Logical Channel To Modify IE includes E-DCH DDI Value IE, the Node B shall apply the values in the new configuration.]
- [FDD - If the E-DCH Logical Channel To Modify IE includes the Maximum MAC-d PDU Size Extended IE, the Node B shall apply the value in the new configuration.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Bundling Mode Indicator IE for an E-DCH MAC-d flow in the E-DCH MAC-d Flow Specific Information IE in the E-DCH FDD Information To Modify IE and the Bundling Mode Indicator IE is set to "Bundling" and the E-TTI IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the Node B shall use this information for the related resource allocation operation.]

- [FDD - If the E-DCH serving RL is in this Node B, the Node B may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission. In this case the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Maximum Bitrate IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Processing Overload Level IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the E-DCH Processing Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Reference Power Offset IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]  

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Power Offset for Scheduling Info IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-AGCH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-RGCH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-HICH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-e Reset Indicator IE in the E-DCH FDD Information To Modify IE, then the Node B shall use this value to determine whether MAC-e (or MAC-i) Reset is performed in the UE for sending the HARQ Failure Indication.]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the SixteenQAM UL Operation Indicator IE in the E-DCH FDD Information To Modify IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the SixteenQAM UL Operation Indicator IE.]

- [FDD - If the SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]

- [FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH DL Control Channel Grant Information IE in the E-DCH FDD Information To Modify IE, the Node B may modify E-AGCH Channelisation Code, E-RGCH/E-HICH Channelisation Code, E-RGCH Signature Sequence and/or E-HICH Signature Sequence for the E-DCH RL indicated by the E-DCH RL ID IE. The Node B shall then report the...
modified configuration which is used in the new configuration specified in the **E-DCH FDD DL Control Channel Information** IE for each E-DCH RL in the RADIO LINK RECONFIGURATION READY message.

**[FDD - E-DCH MAC-d Flow Addition/Deletion:]**

- **[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any E-DCH MAC-d Flows To Add or E-DCH MAC-d Flows To Delete IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]**

- **[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH MAC-d Flows To Add IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel.]**

- **[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an E-DCH MAC-d Flows To Delete IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]**

- **[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH MAC-d Flows To Add IE, then:]**
  - **[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH MAC-d Flows To Add IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]**
  - **[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows To Add IE , the Node B shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]**

**[FDD – Additional E-DCH Setup:]**

- **[FDD - If the Additional E-DCH Cell Information RL Reconf Prep IE is present in the RADIO LINK RECONFIGURATION PREPARE message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is "Setup", then the Additional E-DCH Cell Information Setup IE defines the new configuration and then:]**
  - **[FDD – If the C-ID IE is included in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the C-ID IE indicates the cell in which the Additional E-DCH shall be setup.]**
  - **[FDD - The Node B shall setup the Additional E-DCH on the secondary uplink frequency and setup the requested Additional E-DCH resources on the Radio Links and in the cells indicated by the E-DCH Additional RL ID IE and the C-ID IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE.]**
  - **[FDD - If the C-ID IE is not included in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the E-DCH Additional RL ID IE indicates the existing RL on which the Additional E-DCH shall be setup.]**
  - **[FDD - The Node B shall setup the Additional E-DCH on the Radio Links indicated by the E-DCH Additional RL ID IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE.]**
  - **[FDD - The Node B shall use for the non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters the same values as for the corresponding cell of the Primary uplink frequency.]**
  - **[FDD - If the DL Power Balancing Information IE and/or the Minimum Reduced E-DPDCH Gain Factor IE are present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]**
- [FDD - If the **Secondary UL Frequency Activation State** is present in the **Multicell E-DCH Information** IE in the **Additional E-DCH FDD Setup Information** IE, the Node B shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]

- [FDD - If the **F-DPCH Slot Format** IE is present in the **Additional E-DCH RL Specific Information To Setup** IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the **Primary CPICH Usage For Channel Estimation** IE, the **Secondary CPICH Information**, the **E-AGCH Power Offset** IE, the **E-RGCH Power Offset** IE and/or the **E-HICH Power Offset** IE are present in the **Multicell E-DCH RL Specific Information** IE in the **Additional E-DCH RL Specific Information To Setup** IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the **HARQ Process Allocation For 2ms Scheduled Transmission Grant** IE, the **E-DCH Maximum Bitrate** IE, the **E-DCH Minimum Set E-TFCI** IE and/or the **E-DCH Processing Overload Level** IE are present in the **Additional E-DCH FDD Information** IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If activation of power balancing for the Additional E-DCH RL by the RADIO LINK RECONFIGURATION PREPARE message is supported by the Node B, the Node B shall include the **DL Power Balancing Activation Indicator** IE in the **Additional E-DCH FDD Information Response** IE in the **Additional E-DCH Cell Information Response RL Reconf** IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the **RL Set ID** IE included in the **Additional E-DCH FDD Information Response** IE in the **Additional E-DCH Cell Information Response RL Reconf** IE in the RADIO LINK RECONFIGURATION READY message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]

- [FDD - For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the **RL Set ID** IE included in the **Additional E-DCH FDD Information Response** IE in the **Additional E-DCH Cell Information Response RL Reconf** IE in the RADIO LINK RECONFIGURATION READY message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]

- [FDD – For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the **E-DCH RL Set ID** IE for the Additional E-DCH RL in the **Additional E-DCH FDD Information Response** IE in the **Additional E-DCH Cell Information Response RL Reconf** IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD – For each Additional E-DCH RL indicated in the **Additional E-DCH RL Specific Information To Setup** IE in the **Additional E-DCH FDD Setup Information** IE the Node B may include the **E-AGCH And E-RGCH/E-HICH FDD Scrambling Code** IE and shall include the **E-RGCH/E-HICH Channelisation Code** IE and the corresponding **E-HICH Signature Sequence** IE and the Node B may include the corresponding **E-RGCH Signature Sequence** IE for each Additional E-DCH RL in the **E-DCH FDD DL Control Channel Information** IE in the **Additional E-DCH FDD Information Response** IE in the **Additional E-DCH Cell Information Response RL Reconf** IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD – If the Additional Serving E-DCH Radio Link is configured in the Node B, then:]

  - [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the **E-DCH FDD DL Control Channel Information** IE in the **Additional E-DCH FDD Information Response** IE in the **Additional E-DCH Cell Information Response RL Reconf** IE in the RADIO LINK RECONFIGURATION READY message.]

  - [FDD - The Node B may include the **Serving Grant Value** IE and Primary/Secondary Grant Selector IE in the **Additional E-DCH FDD Information Response** IE in the **Additional E-DCH Cell Information Response RL Reconf** IE in the RADIO LINK RECONFIGURATION READY message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]
[FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – Additional E-DCH Configuration Change]

[FDD - If the Additional E-DCH Cell Information RL Reconf Prep IE is present in the RADIO LINK RECONFIGURATION PREPARE message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is "Configuration Change", then the Additional E-DCH Cell Information Configuration Change IE defines the new configuration and then:]

- [FDD - If the UL Scrambling Code IE and/or the UL SIR Target IE are present in the UL DPCH Information IE in the Additional E-DCH Configuration Change Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the Minimum Reduced E-DPDCH Gain Factor IE is present in the Multicell E-DCH Information IE in the Additional E-DCH Configuration Change Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the F-DPCH Information IE is present in the Additional E-DCH Configuration Change Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

[FDD – Additional E-DCH RL Addition:]

[FDD - If the Additional E-DCH RL Specific Information To Add IE is present in the Additional E-DCH Configuration Change Information IE, then:]

- [FDD - The Node B shall setup the E-DCH resources, as requested or as configured in the Node B Communication Context, on the Radio Links indicated by the E-DCH Additional RL ID IE. Non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]

- [FDD - If the Initial DL Transmission Power IE, the Maximum DL Power IE, the Minimum DL Power IE and/or the F-DPCH Slot Format IE are present in the Additional E-DCH RL Specific Information To Add IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the DL Reference Power IE, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE, and/or the E-HICH Power Offset IE are present in the Multicell E-DCH RL Specific Information IE in the Additional E-DCH RL Specific Information To Add IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing Additional E-DCH RL(s) and the RADIO LINK RECONFIGURATION PREPARE message includes the DL Reference Power IE, the Node B shall activate the power balancing and use the DL Reference Power IE for the power balancing procedure in the new Additional E-DCH RL(s), if activation of power balancing by the RADIO LINK RECONFIGURATION READY message is supported, according to subclause 8.3.7. In this case, the Node B shall include the DL Power Balancing Activation Indicator IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. P_{init} shall be set to the power level indicated by the Initial DL Transmission Power IE (if received) in the Additional E-DCH RL Specific Information To Add IE or the decided DL TX power level on each DL channelisation code of an Additional E-DCH RL based on power level of existing Additional E-DCH RLs.]

- [FDD - For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information]
Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]

- [FDD - For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]

- [FDD – For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the E-DCH RL Set ID IE for the Additional E-DCH RL in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]

- [FDD - For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Add IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – Additional E-DCH RL Modification:]

[FDD - If the Additional E-DCH RL Specific Information To Modify IE is present in the Additional E-DCH Configuration Change Information IE, then the RL indicated by the E-DCH Additional RL ID IE indicates the RL on which E-DCH resources shall be modified:]

- [FDD - If the DL Code Information IE, the Maximum DL Power IE, the Minimum DL Power IE, and/or the F-DPCH Slot Format IE are present in the Additional E-DCH RL Specific Information To Modify IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the DL Reference Power IE, the Primary CPICH Usage For Channel Estimation IE, the Secondary CPICH Information Change IE, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE, the E-HICH Power Offset IE and/or the E-DCH DL Control Channel Grant IE are present in the Multicell E-DCH RL Specific Information IE in the Additional E-DCH RL Specific Information To Modify IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported by the Node B, the Node B shall include the DL Power Balancing Updated Indicator IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE for each affected RL in the RADIO LINK RECONFIGURATION READY message.]

[FDD – Additional E-DCH Modification:]

[FDD - If the Additional E-DCH FDD Information To Modify IE is present in the Additional E-DCH Configuration Change Information IE, then:]

- [FDD - If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE and/or the E-DCH Minimum Set E-TFCT IE is included, the Node B shall use this information for the related resource allocation operation.]

- [FDD - If the E-DCH Maximum Bitrate IE is included, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
[FDD - If the E-DCH Processing Overload Level IE is included, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the E-DCH Processing Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]

[FDD - If the Additional E-DCH serving RL is in this Node B, the Node B may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission. In this case the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional Modified E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION READY message.]

[FDD – Additional E-DCH Removal]

[FDD - If the Additional E-DCH Cell Information RL Reconf Prep IE is present in the RADIO LINK RECONFIGURATION PREPARE message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is "Removal", then the additional E-DCH on the secondary uplink frequency shall be removed.]

[TDD - Intra-Node B Serving E-DCH Radio Link Change:]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Serving RL IE, this indicates the new Serving E-DCH Radio Link:]

- [TDD - In the new configuration the Node B shall de-allocate the E-DCH resources of the old Serving E-DCH Radio Link and allocate the E-DCH resources for the new Serving E-DCH Radio Link.]


- [TDD - If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

[TDD - E-PUCH Handling]:

[3.84Mcps TDD and 7.68Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an E-PUCH Information IE, the Node B shall apply the parameters to the new configuration.]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an E-PUCH Information LCR IE, the Node B shall apply the parameters to the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an E-TFCS Information TDD IE, the Node B shall apply the beta parameters to the new configuration.]

[3.84Mcps TDD - E-DCH Setup]:

[3.84Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: E-DCH Serving RL IE, E-PUCH Information IE, E-TFCS Information TDD IE, E-DCH MAC-d Flows to Add IE, E-DCH TDD Information IE and E-DCH Non-scheduled Grant Information TDD IE if there are to be non-scheduled grants.]

[1.28Mcps TDD - E-DCH Setup]:

[1.28Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: E-DCH Serving RL IE, E-PUCH Information LCR IE, E-TFCS Information TDD IE, E-DCH MAC-d Flows to Add IE, E-DCH TDD Information LCR IE and E-DCH Non-scheduled Grant Information LCR TDD IE if there are to be non-scheduled grants.]

[7.68Mcps TDD - E-DCH Setup]:

[7.68Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: E-DCH Serving RL IE, E-PUCH Information IE, E-TFCS Information TDD IE, E-DCH MAC-d
Flows to Add IE, E-DCH TDD Information 7.68Mcps IE and E-DCH Non-scheduled Grant Information 7.68Mcps TDD IE if there are to be non-scheduled grants.]

[TDD - E-DCH MAC-d Flow Addition/Deletion:]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any E-DCH MAC-d Flows To Add or E-DCH MAC-d Flows To Delete IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information TDD IE in the E-DCH MAC-d Flows To Add IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an E-DCH MAC-d Flows To Delete IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes an E-DCH MAC-d Flows To Delete IE requesting the deletion of all remaining non-scheduled E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the non-scheduled E-DCH configuration from the Node B Communication Context and release the non-scheduled E-DCH resources [1.28 Mcps TDD - and the related Signature Sequence of the Non-scheduled E-HICH].]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH MAC-d Flows To Add IE, then:]

- [TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH MAC-d Flows To Add IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]

- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the MAC-es Maximum Bit Rate LCR IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows To Add IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

[3.84Mcps TDD - E-DCH Non-scheduled allocations:]

[3.84Mcps TDD - If the E-DCH Non-scheduled Grant Information TDD IE is present in the RADIO LINK RECONFIGURATION PREPARE message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[1.28Mcps TDD - E-DCH Non-scheduled allocations:]

[1.28Mcps TDD - If the E-DCH Non-scheduled Grant Information LCR TDD IE is present in the RADIO LINK RECONFIGURATION PREPARE message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[7.68Mcps TDD - E-DCH Non-scheduled allocations:]

[7.68Mcps TDD - If the E-DCH Non-scheduled Grant Information 7.68Mcps TDD IE is present in the RADIO LINK RECONFIGURATION PREPARE message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[TDD - E-DCH Modification:]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH TDD Information To Modify IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH MAC-d PDU Size Format IE in the E-DCH TDD Information To Modify IE, then the Node B shall use the indicated format in user plane frame structure for E-DCH channels [24] and MAC [32].]
[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the [3.84Mcps TDD - E-DCH TDD Information IE][1.28Mcps TDD - E-DCH TDD Information LCR IE][7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE], then:] 

- [3.84Mcps TDD - If the E-DCH TDD Information IE includes the E-DCH TDD Maximum Bitrate IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.] 

- [1.28Mcps TDD - If the E-DCH TDD Information LCR IE includes the E-DCH Physical Layer Category LCR IE or Extended E-DCH Physical Layer Category LCR IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.] 

- [7.68Mcps TDD - If the E-DCH TDD Information 7.68Mcps IE includes the E-DCH TDD Maximum Bitrate 7.68Mcps IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.] 

- [TDD - If the [3.84Mcps TDD - E-DCH TDD Information IE][7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE][1.28Mcps TDD - E-DCH TDD Information LCR IE] includes the E-DCH Processing Overload Level IE, then if the Node B could not decode the E-PUSCH for the last consecutive number of TTIs, indicated in the E-DCH Processing Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.] 

- [TDD - If the [3.84Mcps TDD - E-DCH TDD Information IE][1.28Mcps TDD - E-DCH TDD Information LCR IE][7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE] includes the E-DCH Power Offset for Scheduling Info IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.] 

- [1.28Mcps TDD - If the E-DCH TDD Information LCR IE includes the Maximum Number of Retransmission for Scheduling Info LCR IE and the E-DCH Retransmission timer for Scheduling Info LCR IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.] 

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH TDD Information To Modify IE, then:] 

- [TDD - If the E-DCH TDD Information To Modify IE contains a E-DCH MAC-d Flow Specific Information IE which includes the Allocation/Retention Priority IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.] 

- [TDD - If the E-DCH TDD Information To Modify IE message includes the Maximum Number of Retransmissions for E-DCH IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.] 

- [1.28Mcps TDD - If the E-DCH TDD Information To Modify IE message includes the E-DCH MAC-d Flow Retransmission Timer IE for an E-DCH MAC-d flow then the Node B shall use this information to set the retransmission timer.] 

- [TDD - If the E-DCH TDD Information To Modify IE message includes the E-DCH HARQ Power Offset TDD IE for an E-DCH MAC-d flow the Node B shall use this new power offset value.] 

- [TDD - If the E-DCH TDD Information To Modify IE includes the E-DCH MAC-d Flow Multiplexing List IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.] 

- [TDD - If the E-DCH TDD Information To Modify IE includes the E-DCH Grant Type IE, the Node B shall treat the E-DCH MAC-d flow as Scheduled or Non-scheduled accordingly.] 

- [TDD - If the E-DCH TDD Information To Modify IE includes the E-DCH Logical Channel To Add or E-DCH Logical Channel To Delete IE{s}, the Node B shall use this information to add/delete the indicated logical channels. When a logical channel is deleted, all its associated configuration data shall also removed.] 

- [TDD - If the E-DCH TDD Information To Modify IE includes the E-DCH Logical Channel To Modify IE, the Node B shall use this information to modify the indicated logical channels:] 

- [TDD - If the E-DCH Logical Channel To Modify IE includes Scheduling Priority Indicator IE, the Node B shall apply the values in the new configuration.]
- [TDD - If the E-DCH Logical Channel To Modify IE includes Scheduling Information IE, the Node B shall apply the values in the new configuration.]

- [TDD - If the E-DCH Logical Channel To Modify IE includes MAC-es Guaranteed Bit Rate IE, the Node B shall apply the values in the new configuration.]

- [1.28Mcps TDD - If the E-DCH Logical Channel To Modify IE includes MAC-es Maximum Bit Rate LCR IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [TDD - If the E-DCH Logical Channel To Modify IE includes E-DCH DDI Value IE, the Node B shall apply the values in the new configuration.]

- [TDD - If the E-DCH Logical Channel To Modify IE includes the Maximum MAC-d PDU Size Extended IE, the Node B shall apply the value in the new configuration.]

- [TDD - If the E-DCH TDD Information To Modify IE includes the MAC-e Reset Indicator IE in the E-DCH TDD Information To Modify IE, then the Node B shall use this value to determine whether MAC-e (or MAC-i) Reset is performed in the UE for sending the HARQ Failure Indication.]

[FDD - Phase Reference Handling]:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Primary CPICH Usage For Channel Estimation IE, the Node B shall assume that Primary CPICH usage for channel estimation has been reconfigured.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Secondary CPICH Information Change IE, the Node B shall assume that Secondary CPICH usage for channel estimation has been reconfigured.]

[FDD - Fast Reconfiguration]:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Fast Reconfiguration Mode IE, the Node B shall, if supported, and if it is possible to base the synchronization of the reconfiguration on the detection of the change in the uplink scrambling code for this reconfiguration, include the Fast ReconfigurationPermission IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - If the Power Control GAP IE is included in the RADIO LINK RECONFIGURATION PREPARE message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to the [21].]

[1.28Mcps TDD - E-UTRAN Inter-RAT measurement:] 

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Idle Interval Information IE, if supported, the Node B shall use the value for E-UTRAN Inter-RAT measurement according to the [18].]

[1.28Mcps TDD - HS-DSCH-RNTI for FACH:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH-RNTI for FACH IE, if supported, the Node B shall store this information and include the E-RNTI for FACH IE in the RADIO LINK RECONFIGURATION READY message.]

[1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Measurement occasion pattern sequence parameters IE in the DCH Measurement Occasion Information IE, if HS-SCCH(s), E-AGCH(s) or HS-PDSCH is/are configured on TS0, the Node B shall store the information about the Measurement occasion pattern sequences and use the value(s) to calculate the Inter-frequency/Inter-RAT measurement occasion according to [18].]

General

If the RADIO LINK RECONFIGURATION PREPARE message includes the Transport Layer Address IE and Binding ID IEs in the [TDD - DSCHs To Modify, DSCHs To Add, USCHs To Modify, USCHs To Add], [TDD - E-DCH Information, HS-DSCH Information To Modify, HS-DSCH MAC-d Flows To Add, [TDD - E-DCH MAC-d Flows to Add, E-DCH TDD Information to Modify IE] [FDD - RL Specific E-DCH Information IE] or in the RL Specific DCH Information IEs,
the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for any Transport Channel [FDD - for which the Transport Bearer Not Requested Indicator IE is not included] or MAC-d flow [FDD - for which the Transport Bearer Not Requested Indicator IE is not included] being added, or any Transport Channel [FDD - for which the Transport Bearer Not Requested Indicator IE was not included] or MAC-d flow [FDD - for which the Transport Bearer Not Requested Indicator IE was not included] being modified for which a new transport bearer was requested with the Transport Bearer Request Indicator IE.

If the requested modifications are allowed by the Node B and the Node B has successfully reserved the required resources for the new configuration of the Radio Link(s), it shall respond to the CRNC with the RADIO LINK RECONFIGURATION READY message. When this procedure has been completed successfully there exists a Prepared Reconfiguration, as defined in subclause 3.1.

The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address IE and the Binding ID IE for any Transport Channel [FDD - for which the Transport Bearer Not Requested Indicator IE was not included] or MAC-d flow [FDD - for which the Transport Bearer Not Requested Indicator IE was not included] being added or any Transport Channel [FDD - for which the Transport Bearer Not Requested Indicator IE was not included] or MAC-d flow [FDD - for which the Transport Bearer Not Requested Indicator IE was not included] being modified for which a new transport bearer was requested with the Transport Bearer Request Indicator IE.

In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iub interface, the Transport Layer Address IE and the Binding ID IE in the DCH Information Response IE shall be included [FDD - if the Transport Bearer Not Requested Indicator IE is not included for this DCH] only for one of the DCH in the set of co-ordinated DCHs.

[FDD - If the RADIO LINK RECONIGURATION PREPARE message includes the Transport Bearer Not Requested Indicator IE set to "Transport Bearer shall not be Established" for a DCH or an E-DCH MAC-d flow, then the Node B shall not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow and shall include the Transport Bearer Not Setup Indicator IE for the DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION READY message.]

[FDD - If the RADIO LINK RECONIGURATION PREPARE message includes the Transport Bearer Not Requested Indicator IE set to "Transport Bearer may not be Established" for a DCH or an E-DCH MAC-d flow and:]

- [FDD - if the Node B establishes a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include in the RADIO LINK RECONFIGURATION READY message the Binding ID IE and Transport Layer Address IE for establishment of a transport bearer for the DCH or E-DCH MAC-d flow being established.]

- [FDD - if the Node B does not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include the Transport Bearer Not Setup Indicator IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION READY message.]

In the case of a Radio Link being combined with another Radio Link within the Node B, the Transport Layer Address IE and the Binding ID IE in the DCH Information Response IE shall be included only for one of the combined Radio Links [FDD - if the Transport Bearer Not Requested Indicator IE is not included for this DCH].

[FDD - In the case of an E-DCH RL being combined with another E-DCH RL within the Node B, the E-DCH FDD Information Response IE shall be included only for one of the combined E-DCH RLs.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Additional E-DCH Cell Information RL Reconf Prep IE, then:]

- [FDD – if the Multicell E-DCH Transport Bearer Mode IE for an Additional E-DCH to be Setup is set to "Separate Iub Transport Bearer Mode” the Node B shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]

- [FDD – if the Multicell E-DCH Transport Bearer Mode IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode” the Node B shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]

- [FDD - if Separate Iub Transport Bearer Mode is used in the new configuration, then:]

  - [FDD - the Node B shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow, use the Transport Bearer Not Requested Indicator IE in the E-DCH MAC-d Flow Specific Information IE in the E-DCH MAC-d Flows]
Information IE in the E-DCH FDD Information IE and/or the Transport Bearer Request Indicator IE in the E-DCH FDD Information To Modify IE received for the corresponding Radio Link(s) of the Primary Uplink Frequency to determine the transport bearer configuration in the new configuration for the radio links of the Secondary Uplink Frequency.

- [FDD - If the Transport Layer Address IE and Binding ID IE is included for an E-DCH MAC-d flow in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH FDD Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE or in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH FDD Information To Modify IE in the Additional E-DCH Configuration Change Information IE in the Additional E-DCH Cell Information Configuration Change IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow the Node B shall, for establishment of the transport bearer, include in the RADIO LINK RECONFIGURATION READY message the Binding ID IE and Transport Layer Address IE in the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional E-DCH FDD Information Response IE and/or include the Binding ID IE and Transport Layer Address IE for the E-DCH MAC-d flow has been modified in the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional Modified E-DCH FDD Information Response IE.]

8.3.2.3 Unsuccessful Operation

Figure 31: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

If the Node B cannot reserve the necessary resources for all the new DCHs of one set of co-ordinated DCHs requested to be added, it shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration Preparation procedure fails for one or more RLs, the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

Typical cause values are as follows:

Radio Network Layer Cause
- UL SF not supported
- DL SF not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- Number of DL codes not supported
- Number of UL codes not supported
- RL Timing Adjustment not supported
- F-DPCH not supported
- [FDD - Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD - Continuous Packet Connectivity UE DTX Cycle not available]
3GPP TS 25.433 version 9.5.0 Release 9

8.3.2.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

If more than one DCH of a set of co-ordinated DCHs has the QE-Selector IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the QE-Selector IE set to "selected"], the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes a DCHs To Modify IE or DCHs To Add IE with multiple DCH Specific Info IEs, and if the DCHs in the DCHs To Modify IE or DCHs To Add IE do not have the same Transmission Time Interval IE in the Semi-Static Transport Format Information IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RL Information IE includes the DL Reference Power IE, but the power balancing is not active in the indicated RL(s), the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s) but the RADIO LINK RECONFIGURATION PREPARE message IE includes more than one DL Reference Power IE, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK RECONFIGURATION PREPARE message contains the Transport Layer Address IE or the Binding ID IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added, or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested...
with the *Transport Bearer Request Indicator* IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message is to modify UE channel estimation information for an existing RL and the modification is not allowed according to [10] subclause 4.3.2.1, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information To Modify IE*, *HS-DSCH MAC-d Flows To Add IE* or *HS-DSCH MAC-d Flows To Delete IE* in addition to the *HS-DSCH Information IE*, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information To Modify IE*, *HS-DSCH MAC-d Flows To Add IE*, *HS-DSCH MAC-d Flows To Delete IE* or *HS-PDSCH RL ID IE* in addition to the *HS-DSCH Information IE*, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information IE* and does not include the *HS-PDSCH RL-ID IE*, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-DSCH Information To Modify IE* deleting the last remaining Priority Queue of an HS-DSCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *HS-PDSCH RL-ID IE* indicating a Radio Link not existing in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[TDD - If multiple radio links exist within the Node B Communication Context and the RADIO LINK RECONFIGURATION PREPARE message does not include a *RL ID IE* within each *UL DPCH To Add Per RL IE*, *DL DPCH To Add Per RL IE*, *UL DPCH To Modify Per RL IE*, and *DL DPCH To Modify Per RL IE* that is present in the message, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message contains any of the *HS-DSCH Information IE*, *HS-DSCH Information To Modify IE*, or *HS-DSCH MAC-d Flows To Add IE* and if in the new configuration the Priority Queues associated with the same *HS-DSCH MAC-d Flow ID IE* have the same *Scheduling Priority Indicator IE* value, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Indexed MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Flexible MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use Maximum MAC-d PDU Size Index, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Fixed MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Flexible MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use MAC-d PDU Size List, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the *HS-DSCH Information IE* and if the *Measurement Power Offset IE* is not present, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
If the RADIO LINK RECONFIGURATION PREPARE message includes **HS-DSCH Information** IE and the HS-DSCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the **F-DPCH Information** IE and the **DL DPCH Information** IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned the Node B Communication Context is configured to use DPCH in the downlink in the old configuration and the RADIO LINK RECONFIGURATION PREPARE message includes the **DL DPCH Power Information** IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to use F-DPCH in the downlink in the old configuration and the RADIO LINK RECONFIGURATION PREPARE message includes at least one but not all of the **TFCS IE**, **DL DPCH Slot Format IE**, **TFCI Signalling Mode IE**, **Multiplexing Position IE**, **Limited Power Increase IE** and **DL DPCH Power Information IE** in the **DL DPCH Information IE**, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the **E-DCH FDD Information** IE is present in the RADIO LINK RECONFIGURATION PREPARE message, but the **E-DPCH Information** IE is not present or if any of the **Maximum Set of E-DPDCHs IE**, **Puncture Limit IE**, **E-TFCS Information IE**, **E-TTI IE**, **E-DPCCH Power Offset IE**, **E-RGCH 2-Index-Step Threshold IE**, **E-RGCH 3-Index-Step Threshold IE**, **HARQ Info for E-DCH IE** or **HS-DSCH Configured Indicator IE** are not present in the **E-DPCH Information IE**, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the **E-DCH RL Indication IE** set to **"E-DCH"**, but no **E-DCH FDD Information IE**, and the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the **E-DCH RL Indication IE** set to **"E-DCH"**, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the **E-DCH FDD Information IE** but no **E-DCH RL Indication IE** set to **"E-DCH"**, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the **E-DCH RL Indication IE** deleting the last remaining E-DCH Logical Channel of an E-DCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes E-DCH FDD Information IE and the E-DCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[TDD - if the radio link was not previously configured to support E-DCH, then if the RADIO LINK RECONFIGURATION PREPARE message includes one of the following E-DCH information elements then it shall contain all of them otherwise the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.: E-DCH Serving RL IE, [3.84Mcps TDD and 7.68Mcps TDD - E-PUCH Information IE, E-TFCS Information TDD IE], [1.28Mcps TDD - E-PUCH Information LCR IE, E-TFCS Information TDD IE], E-DCH MAC-d Flows to Add IE, and [3.84Mcps TDD - E-DCH TDD Information IE], [1.28Mcps TDD - E-DCH TDD Information LCR IE] [7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE].]

[FDD - If the Fast Reconfiguration IE is included in the RADIO LINK RECONFIGURATION PREPARE message and the UL Scrambling Code IE does not indicate an uplink scrambling code different from the currently used uplink scrambling code the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Continuous Packet Connectivity DTX-DRX Information To Modify IE in addition to the Continuous Packet Connectivity DTX-DRX Information IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Continuous Packet Connectivity HS-SCCH less Deactivate Indicator IE in addition to the Continuous Packet Connectivity HS-SCCH less Information IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Continuous Packet Connectivity HS-SCCH less Deactivate Indicator IE while the Continuous Packet Connectivity HS-SCCH less configuration isn"t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Continuous Packet Connectivity DTX-DRX Information To Modify IE while the Continuous Packet Connectivity DTX-DRX configuration isn’t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the DRX Information To Modify IE in Continuous Packet Connectivity DTX-DRX Information To Modify IE while the Continuous Packet Connectivity DRX configuration isn’t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the DCHs to Modify IE contains a DCH Specific Info IE which includes the Unidirectional DCH Indicator IE set to "Uplink DCH only" but no Transport Format Set IE for the uplink for this DCH and the Node B had ignored the configuration of Transport Format Set for uplink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the DCHs to Modify IE contains a DCH Specific Info IE which includes the Unidirectional DCH Indicator IE set to "Downlink DCH only" but no Transport Format Set IE for the downlink for this DCH and the Node B had ignored the configuration of Transport Format Set for downlink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the Transport Bearer Not Requested Indicator IE for a DCH but does not contain the corresponding DCH ID IE and the Unidirectional DCH indicator IE set to "Uplink DCH only" for the DCH in DCH Information To Add IE, the Node B shall reject the procedure using the the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply UL DPCCH Slot Format 4 but is not configured to use F-DPCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply UL DPCCH Slot Format 0 or 2 and execute Continuous Packet Connectivity DTX-DRX operation, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
[FDD - If the concerned Node B Communication Context is configured to apply the "Closed loop mode 1" and if the concerned Node B Communication Context is not configured to apply UL DPCCH Slot Format 2 or 3, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply MIMO, allowed to apply 64 QAM, establish the the secondary serving HS-DSCH Radio Link or apply Single Stream MIMO in the new configuration but is not configured to use flexible MAC-d PDU Size, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Transport Bearer Not Requested Indicator IE for a DCH in the RL Specific DCH Information IE but does not include the DCH ID IE for the DCH in the DCHs to Add IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message contains the Continuous Packet Connectivity DTX-DRX Information IE but does not contain the F-DPCH Information IE and the concerned Node B Communication Context is not previously configured to use F-DPCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to have the Serving E-DCH Radio Link but there is at least one E-DCH MAC-d flow which the Transport Bearer is not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the Transport Bearer Not Requested Indicator IE for a DCH for a specific RL and the specific RL is combined with existing RL which the transport bearer is established for the DCH in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If ALCAP is not used, if the concerned Node B Communication Context is configured to establish a DCH, an E-DCH MAC-d flow and/or an HS-DSCH MAC-d flow but the RADIO LINK RECONFIGURATION PREPARE message does not include the Transport Layer Address IE and the Binding ID IE for the DCH, the E-DCH MAC-d flow and/or the HS-DSCH MAC-d flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[TDD - If ALCAP is not used, if the concerned Node B Communication Context is configured to establish a DSCH and/or a USCH but the RADIO LINK RECONFIGURATION PREPARE message does not include the Transport Layer Address IE and the Binding ID IE for the DSCH and/or the USCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Semi-Persistent scheduling Information to Modify LCR IE in addition to the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the E-DCH Semi-Persistent scheduling Information to Modify LCR IE in addition to the E-DCH Semi-Persistent scheduling Information LCR IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If, in the new configuration, there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use 'Flexible RLC PDU Size' for an HS-DSCH but is not configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use MAC-d PDU Size Index for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use 'Flexible RLC PDU Size', the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH FDD Secondary Serving Information IE but does not contain the C-ID IE in the Additional HS Cell Information RL Reconf Prep IE or the message includes the C-ID IE but does not contain the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Reconf Prep IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]
[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains a MIMO Activation Indicator IE and a Single Stream MIMO Activation Indicator IE in the HS-DSCH FDD Information IE or in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Reconf Prep IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply MIMO and Single Stream MIMO for the HS-DSCH Radio Link or the Secondary Serving Radio link, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the Diversity Mode IE in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Reconf Prep IE and the secondary serving HS-DSCH is already configured in the Node B Communication Context, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the Diversity Mode IE in the Secondary Serving Information To Modify IE in the Additional HS Cell Information RL Reconf Prep IE and the Non Cell Specific Tx Diversity IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the Additional E-DCH Cell Information RL Reconf Prep IE and if the E-DPCH Information IE is not present or the E-DPCH Information was not configured in the Node B Communication Context, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the Additional E-DCH Cell Information RL Reconf Prep IE and there exist a logical channel for which the Maximum MAC-d PDU Size Extended IE in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE is not present, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message contains the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE in the Additional E-DCH Cell Information RL Reconf Prep IE and the C-ID IE is not included but the Radio Link indicated by the E-DCH Additional RL ID IE is not configured in the current Node B Communication Context as a Secondary Serving HS-DSCH radio link without any configured Additional E-DCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

8.3.3 Synchronised Radio Link Reconfiguration Commit

8.3.3.1 General

This procedure is used to order the Node B to switch to the new configuration for the Radio Link(s) within the Node B, previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

8.3.3.2 Successful Operation

CRNC

Node B

RADIO LINK RECONFIGURATION COMMIT

Figure 32: Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation
The Node B shall switch to the new configuration previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure

- [TDD - at the next coming CFN with a value equal to the value requested by the CRNC in the CFN IE (see ref.[17] subclause 9.4) when receiving the RADIO LINK RECONFIGURATION COMMIT message from the CRNC.]

- [FDD - if the Fast Reconfiguration IE is not included in the RADIO LINK RECONFIGURATION COMMIT message at the next coming CFN with a value equal to the value requested by the CRNC in the CFN IE (see ref.[17] subclause 9.4) when receiving the RADIO LINK RECONFIGURATION COMMIT message from the CRNC.]

- [FDD - if the Fast Reconfiguration IE is included in the RADIO LINK RECONFIGURATION COMMIT message as soon as the Node B detects that the UE uses the new configuration in the uplink (e.g. the Node B detects that the UE uses the new scrambling code used for the uplink by sending the RADIO LINK RESTORATION message). In order to limit the period for the detection in the Node B the CFN in the RADIO LINK RECONFIGURATION COMMIT message indicates the earliest possible time instant at which the UE might use the new configuration.]

[FDD - If the Active Pattern Sequence Information IE is included in the RADIO LINK RECONFIGURATION COMMIT message, the CM Configuration Change CFN IE in the Active Pattern Sequence Information IE shall be ignored by the Node B.]

[FDD - If the Active Pattern Sequence Information IE is not included in the RADIO LINK RECONFIGURATION COMMIT message and a new Compressed Mode Configuration exists in the prepared configuration, the Node B shall behave as if an Active Pattern Sequence Information IE with an empty Transmission Gap Pattern Sequence Status IE was included.]

When this procedure has been completed the Prepared Reconfiguration does not exist any more, see subclause 3.1.

In the case of a Transport Channel or MAC-d flow modification for which a new transport bearer was requested and established, the switch to the new transport bearer shall also take place at the configuration switching point (defined above). The detailed frame protocol handling during transport bearer replacement is described in [16], subclause 5.10.1 and in [24], subclauses 5.8.2 and 5.8.3.

In the case of a signalling bearer re-arrangement, the new Communication Control Port shall be used once the Node B has received the RADIO LINK RECONFIGURATION COMMIT message via the old Communication Control Port.

[FDD - If the RADIO LINK RECONFIGURATION COMMIT includes the Active Pattern Sequence Information IE, the Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the configuration switching point (defined above). From that moment on, all Transmission Gap Pattern Sequences included in Transmission Gap Pattern Sequence Status IE repetitions shall be started when the indicated TGCFN IE elapses. The CFN IE and TGCFN IE for each sequence refer to the next coming CFN with that value. If the values of the CFN IE and the TGCFN IE are equal, the concerned Transmission Gap Pattern Sequence shall be started immediately at the CFN with a value equal to the value received in the CFN IE.]

[FDD - If the RADIO LINK RECONFIGURATION COMMIT message includes the Active Pattern Sequence Information IE and the concerned Node B Communication Context is configured to use F-DPCH in the downlink, the Node B shall not transmit the F-DPCH during the downlink transmission gaps according to [7]. But in all slots outside of the downlink transmission gaps the NodeB shall transmit the F-DPCH with the normal scrambling code and the assigned slot format, regardless of the configured downlink compressed mode method information and of the transmission gap pattern sequence code information, if existing.]

8.3.3.3 Abnormal Conditions

If a new transport bearer is required for the new reconfiguration and it is not available at the configuration switching point (defined above), the Node B shall initiate the Radio Link Failure procedure.

[FDD - If the Fast Reconfiguration IE is included in the RADIO LINK RECONFIGURATION COMMIT message and the Node B did not include the Fast ReconfigurationPermission IE in the RADIO LINK RECONFIGURATION READY message, the Node B shall initiate the Radio Link Failure procedure.]

[FDD - If the RADIO LINK RECONFIGURATION COMMIT message includes the Active Pattern Sequence Information IE which activates a downlink transmission gap pattern sequence with an SF/2 downlink compressed mode
method and if the concerned NodeB Communication Context is configured to use DPCH in downlink and for any Radio
Link the transmission gap pattern sequence code information is not available, the NodeB shall trigger the Radio Link
Failure procedure with the cause value 'Invalid CM Settings'.

8.3.4 Synchronised Radio Link Reconfiguration Cancellation

8.3.4.1 General
This procedure is used to order the Node B to release the new configuration for the Radio Link(s) within the Node B,
previously prepared by the Synchronised Radio Link Preparation Reconfiguration procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

8.3.4.2 Successful Operation

CRNC                                      Node B

RADIO LINK RECONFIGURATION CANCEL

Figure 33: Synchronised Radio Link Reconfiguration Cancellation procedure, Successful Operation

When receiving the RADIO LINK RECONFIGURATION CANCEL message from the CRNC, the Node B shall
release the new configuration ([FDD - including the new Transmission Gap Pattern Sequence parameters (if existing)])
previously prepared by the Synchronised Radio Link Reconfiguration Preparation procedure and continue using the old
configuration. When this procedure has been completed the Prepared Reconfiguration does not exist any more, see
subsection 3.1.

8.3.4.3 Abnormal Conditions

-

8.3.5 Unsynchronised Radio Link Reconfiguration

8.3.5.1 General
The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-
UTRAN connection within a Node B.

The Unsynchronised Radio Link Reconfiguration procedure is used when there is no need to synchronise the time of the
switching from the old to the new configuration in one Node B used for a UE-UTRAN connection with any other Node
B also used for the UE-UTRAN connection.

The Unsynchronised Radio Link Reconfiguration procedure shall not be initiated if a Prepared Reconfiguration exists,
as defined in subsection 3.1.

8.3.5.2 Successful Operation

CRNC                                      Node B

RADIO LINK RECONFIGURATION REQUEST

RADIO LINK RECONFIGURATION RESPONSE

Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation
The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the RADIO LINK RECONFIGURATION REQUEST message to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall modify the configuration of the Radio Link(s) according to the parameters given in the message. Unless specified below, the meaning of parameters is specified in other specifications.

The Node B shall prioritise resource allocation for the RL(s) to be modified according to Annex A.

If the UE Aggregate Maximum Bit Rate IE is contained in the RADIO LINK RECONFIGURATION REQUEST message, the NodeB shall, if supported, store the received UE Aggregate Maximum Bit Rate parameters to control the aggregate data rate of non GBR traffic for this UE.

DCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCHs To Modify IE then the Node B shall treat them each as follows:

- If the DCHs To Modify IE includes the Frame Handling Priority IE, the Node B should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.

- If the DCHs To Modify IE includes the TNL QoS IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The TNL QoS IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.

- If the DCHs To Modify IE includes the Transport Format Set IE for the UL, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

- If the DCHs To Modify IE includes the Transport Format Set IE for the DL, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

- If the DCHs To Modify IE includes the Allocation/Retention Priority IE for a DCH, the Node B shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.

- If the DCHs To Modify IE includes multiple DCH Specific Info IEs, then the Node B shall treat the DCHs in the DCHs To Modify IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

- [FDD - If the DCHs to Modify IE contains a DCH Specific Info IE which includes the Unidirectional DCH indicator IE set to "Uplink DCH only", the Node B shall ignore the Transport Format Set IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.]

- [FDD - If the DCHs to Modify IE contains a DCH Specific Info IE which includes the Unidirectional DCH indicator IE set to "Downlink DCH only", the Node B shall ignore the Transport Format Set IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]

- If the DCHs To Modify IE includes the UL FP Mode IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the DCHs To Modify IE includes the ToAWS IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the DCHs To Modify IE includes the ToAWE IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- [TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the CCTrCH ID IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Downlink of this DCH in the new configuration.]

- [TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the CCTrCH ID IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]
DCH Addition:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH To Add IE, the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCHs in the new configuration. In particular:

- If a DCHs To Add IE includes multiple DCH Specific Info IEs for a DCH to be added, the Node B shall treat the DCHs in the DCHs To Add IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

- If the DCH Specific Info IE includes the Unidirectional DCH Indicator IE set to "Uplink DCH only", the Node B shall ignore the Transport Format Set IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

- If the DCH Specific Info IE includes the Unidirectional DCH Indicator IE set to "Downlink DCH only", the Node B shall ignore the Transport Format Set IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.

- If a DCHs To Add IE includes multiple DCH Specific Info IEs for a DCH to be added, the Node B shall treat the DCHs in the DCHs To Add IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

- If the DCH Specific Info IE includes the Unidirectional DCH Indicator IE set to "Uplink DCH only", the Node B shall ignore the Transport Format Set IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

- If the DCH Specific Info IE includes the Unidirectional DCH Indicator IE set to "Downlink DCH only", the Node B shall ignore the Transport Format Set IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.

- [FDD - For DCHs which do not belong to a set of co-ordinated DCHs with the QE-Selector IE set to "selected", the Node B shall use the Transport channel BER from that DCHas the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If the QE-Selector IE is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]

- For a set of co-ordinated DCHs, the Node B shall use the Transport channel BER from the DCH with the QE-Selector IE set to "selected" as the QE in the UL data frames [16]. [FDD - If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If all DCHs have the QE-Selector IE set to "non-selected", the Physical channel BER shall be used for the QE [16].]

- The Node B should store the Frame Handling Priority IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the Uu interface in congestion situations within the Node B once the new configuration has been activated.

- If the TNL QoS IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the Node B may store this information for this DCH in the new configuration. The TNL QoS IE may be used to determine the transport bearer characteristics to apply for the uplink between the Node B and the CRNC for the related DCH or set of co-ordinated DCHs.

- The Node B shall use the included UL FP Mode IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The Node B shall use the included ToAWS IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Startpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- The Node B shall use the included ToAWE IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Endpoint in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- [TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the CCTrCH ID IE for the DL of a DCH to be added, the Node B shall apply the new CCTrCH ID in the downlink of this DCH in the new configuration.]

- [TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the CCTrCH ID IE for the UL of a DCH to be added, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be deleted from the Radio Link(s), the Node B shall not include this DCH in the new configuration.
If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the Node B shall not include this set of co-ordinated DCHs in the new configuration.

[FDD - Physical Channel Modification]:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an UL DPCH Information IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD - If the UL DPCH Information IE includes the TFCS IE for the UL, the Node B shall apply the new TFCS in the Uplink of the new configuration.]

- [FDD - If the UL DPCH Information IE includes the UL DPDCH Indicator For E-DCH Operation IE set to "UL DPDCH not present", the UL DPDCH resources shall be removed from the configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes a DL DPCH Information IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD - If the DL DPCH Information IE includes the TFCS IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]

- [FDD - If the DL DPCH Information IE includes the TFCI Signalling Mode IE, the Node B shall use the information when building TFCIs in the new configuration.]

- [FDD - If the DL DPCH Information IE includes the Limited Power Increase IE set to "Used", the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]

- [FDD - If the DL DPCH Information IE includes the Limited Power Increase IE set to "Not Used", the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Transmission Gap Pattern Sequence Information IE, the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. Any Transmission Gap Pattern Sequences already existing in the previous Compressed Mode Configuration are replaced by the new sequences once the new Compressed Mode Configuration has been activated. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Continuous Packet Connectivity DTX-DRX Information IE, then:]

- [FDD - The Node B shall configure the concerned Node B Communication Context for DTX operation according to [10].]

- [FDD - If DRX Information IE is included in the Continuous Packet Connectivity DTX-DRX Information IE, then the Node B shall configure the concerned Node B Communication Context for DRX operation according to [10].]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then:]

- [FDD - If the UE DTX DRX Offset IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall apply the indicated Offset in UE DTX DRX Cycle IE in the new configuration.]

- [FDD - If the Enabling Delay IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall use this value to determine the beginning of uplink transmission in the new configuration according to [10].]

- [FDD - If the DTX Information To Modify IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall use this information to modify the indicated DTX Information parameter in the new configuration. If the choice of DTX Information To Modify IE is "Deactivate", then DRX should be deactivated together with DTX.]

- [FDD - If the DRX Information To Modify IE is included in the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall use this information to modify the indicated DRX Information in the new configuration.]
[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Continuous Packet Connectivity HS-SCCH less Information IE, then:]  
- [FDD - The Node B shall configure the Serving HS-DSCH Radio Link for Continuous Packet Connectivity HS-SCCH less operation in the new configuration according to [10].]  
- [FDD - The Node B shall allocate the HS-PDSCH codes needed for HS-SCCH less operation and include the Continuous Packet Connectivity HS-SCCH less Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]  
- [FDD - If at least one of HS-PDSCH Second Code Support IE is set to "True", then the Node B shall include HS-PDSCH Second Code Index IE in the RADIO LINK RECONFIGURATION RESPONSE message.]  

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Continuous Packet Connectivity HS-SCCH less Deactivate Indicator IE, then the Node B shall deactivate the Continuous Packet Connectivity HS-SCCH less operation for the HS-DSCH Radio Link.]  

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Continuous Packet Connectivity DRX Information LCR IE, then the Node B shall take account into these parameters to decide the DRX operation related parameters and configure the concerned Node B Communication Context for DRX operation according to [21] and include the parameter(s) in the Continuous Packet Connectivity DRX Information Response LCR IE in the RADIO LINK RECONFIGURATION RESPONSE message.]  

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Continuous Packet Connectivity DRX Information To Modify LCR IE, then:]  
- [1.28 Mcps TDD - If the UE DTX DRX Offset IE is included in the Continuous Packet Connectivity DRX Information To Modify LCR IE, then the Node B shall apply the indicated Offset in UE DTX DRX Cycle IE in the new configuration.]  
- [1.28 Mcps TDD - If the Enabling Delay IE is included in the Continuous Packet Connectivity DRX Information To Modify LCR IE, then the Node B shall use this value to determine the beginning of uplink transmission in the new configuration according to [21].]  
- [1.28 Mcps TDD - If the DRX Information To Modify IE is included in the Continuous Packet Connectivity DRX Information To Modify LCR IE, then the Node B shall use this information to modify the indicated DRX Information in the new configuration.]  
- [1.28 Mcps TDD - If the Inactivity Threshold for UE DRX Cycle Ext IE is included in the Continuous Packet Connectivity DRX Information LCR IE, then the NodeB may use this value to determine the Inactivity Threshold for UE DRX Cycle according to [21].]  
- [1.28 Mcps TDD - If the Enabling Delay Ext IE is included in the Continuous Packet Connectivity DRX Information To Modify LCR IE, then the Node B may use this value to determine the beginning of uplink transmission in the new configuration according to [21].]  

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH Semi-Persistent scheduling Information LCR IE, then:]  
- [1.28 Mcps TDD - The Node B shall configure the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE for HS-DSCH Semi-Persistent scheduling operation according to [21].]  
- [1.28 Mcps TDD - The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the HS-DSCH Semi-Persistent scheduling Information Response LCR IE in the RADIO LINK RECONFIGURATION READY message.]  
- [1.28 Mcps TDD - If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the Node B shall include Allocated HS-PDSCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION RESPONSE message.]  

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Semi-Persistent scheduling Information LCR IE, then:]  
- [1.28 Mcps TDD - The Node B shall configure the Serving E-DCH Radio Link indicated by the E-DCH Serving RL IE for E-DCH Semi-Persistent scheduling operation according to [21].]
[1.28 Mcps TDD - If the E-DCH Semi-Persistent Resource Reservation Indicator IE is included in the E-DCH Semi-Persistent scheduling Information LCR IE, then the Node B shall include Allocated E-DCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then:

- [1.28 Mcps TDD - If the Transport Block Size List IE or/and Repetition Period list IE is/are included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, the Node B shall modify the configuration of Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE for HS-DSCH Semi-Persistent scheduling operation according to [21].

- [1.28 Mcps TDD - If the Buffer Size for HS-DSCH Semi-Persistent scheduling IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, the Node B shall use this information to modify the buffer size for HS-DSCH Semi-Persistent scheduling operation.

- [1.28 Mcps TDD - If the Number of Processes for HS-DSCH Semi-Persistent scheduling IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, the Node B shall use this information to allocate the number of processes for HS-DSCH Semi-Persistent scheduling operation.

- [1.28 Mcps TDD - The Node B shall allocate the HS-SICH information needed for HS-DSCH Semi-Persistent scheduling operation and include the HS-DSCH Semi-Persistent scheduling Information Response LCR IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [1.28 Mcps TDD - If the HS-DSCH Semi-Persistent Resource Reservation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall include Allocated HS-PDSCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [1.28 Mcps TDD - If the HS-DSCH Semi-Persistent scheduling operation Indicator IE is included in the HS-DSCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall apply this information for HS-DSCH Semi-Persistent scheduling operation.]

- [1.28 Mcps TDD - If the Semi-Persistent E-DCH related E-HICH Information IE is included in the E-DCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall use this information to modify the configuration of Semi-Persistent E-DCH related E-HICH.]

- [1.28 Mcps TDD - If the E-DCH Semi-Persistent Resource Reservation Indicator IE is included in the E-DCH Semi-Persistent scheduling Information to modify LCR IE, then the Node B shall include Allocated E-DCH Semi-persistent resource IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR IE, then the Node B shall deactivate the HS-DSCH Semi-Persistent scheduling operation for the HS-DSCH Radio Link.]
[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Semi-Persistent scheduling Deactivate Indicator LCR IE, then the Node B shall deactivate the E-DCH Semi-Persistent scheduling operation for the E-DCH Radio Link.]

[FDD - E-DPCH Handling]:

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an E-DPCH Information IE which contains the E-TFCS Information IE, the Node B shall use the E-TFCS Information IE for the E-DCH when reserving resources for the uplink of the new configuration. The Node B shall apply the new TFCS in the uplink of the new configuration. If the E-TFCS Information IE contains the E-DCH Minimum Set E-TFCI IE the Node B shall use the value for the related resource allocation operation.]

[FDD - If the E-TFCS Information IE in the E-DPCH Information IE contains the E-DPDCH Power Interpolation IE, the Node B shall use the value to determine the applicable E-DPDCH power formula defined in [10]. If the E-DPDCH Power Interpolation IE is not present, the Node B shall use the E-DPDCH power extrapolation formula defined in [10] if the E-DCH FDD Information IE is included in the RADIO LINK RECONFIGURATION REQUEST message.]

[FDD - If the E-TFCS Information IE in the E-DPCH Information IE contains the E-TFCI Boost Information IE, the Node B shall use the information according to [10]. If the E-TFCI Boost Information IE is not present, the Node B shall use the E-TFCI BetaEC Boost value “127” in the algorithm defined in [10] if the E-DCH FDD Information IE is included in the RADIO LINK RECONFIGURATION PREPARE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST includes an E-DPCH Information IE which contains the E-DPCCH Power Offset IE, the Node B shall use the value when the new configuration is being used.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST includes an E-DPCH Information IE which contains the E-RGCH 2-Index-Step IE, the Node B shall use the value when the new configuration is being used.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST includes an E-DPCH Information IE which contains the E-RGCH 3-Index-Step IE, the Node B shall use the value when the new configuration is being used.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST includes an E-DPCH Information IE which contains the HARQ Info for E-DCH IE, the Node B shall use the value when the new configuration is being used.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST includes an E-DPCH Information IE which contains the Minimum Reduced E-DPDCH Gain Factor IE, then the Node B shall use the value to determine the applicable minimum gain factor (β_{ed,k,reduced,min}) defined in [10]. For the case the Minimum Reduced E-DPDCH Gain Factor IE is not available for the Node B Communication Context, the Node B may use the default value defined in [18].]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any UL CCTrCH To Modify IE or DL CCTrCH To Modify IE in the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message.]

[TDD - If the UL CCTrCH To Modify IE or DL CCTrCH To Modify IE includes TFCS IE and/or Puncture Limit IE, the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[1.28 Mcps TDD - If the UL CCTrCH To Modify IE includes UL SIR Target IE, the Node B shall apply this value as the new configuration and use it for the UL inner loop power control according [19] and [21].]

[TDD - UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any UL CCTrCH To Delete IE or DL CCTrCH To Delete IE, the Node B shall not include this CCTrCH in the new configuration.]

DL Power Control:

- [FDD - If the Radio Link Information IE includes the DL Reference Power IE and the power balancing is active, the Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported, using the DL Reference Power IE in the RADIO LINK RECONFIGURATION REQUEST message. The updated reference power shall be used from the next adjustment period.]
[FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the Node B, the Node B shall include the DL Power Balancing Updated Indicator IE in the RL Information Response IE for each affected RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

**RL Information:**

If the RADIO LINK RECONFIGURATION REQUEST message includes the RL Information IE, the Node B shall treat it as follows:

- [FDD - If the RL Information IE includes the Maximum DL Power IE, the Node B shall apply this value to the new configuration and not transmit with a higher power on any Downlink DPCH or on the F-DPCH of the Radio Link once the new configuration is being used. During compressed mode, the $\delta P_{\text{curr}}$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power for the associated compressed frame.]

- [FDD - If the RL Information IE includes the Minimum DL Power IE, the Node B shall apply this value to the new configuration and never transmit with a lower power on any Downlink Channelisation Code or on the F-DPCH of the Radio Link once the new configuration is being used.]

- [3.84 Mcps TDD and 7.68Mcps TDD - If the CCTrCH Maximum DL Transmission Power IE and/or the CCTrCH Minimum DL Transmission Power IE are included, the Node B shall apply the values in the new configuration for this DCH type CCTrCH, if the RL Information IE includes Maximum Downlink Power and/or the Minimum Downlink Power IEs, the Node B shall apply the values in the new configuration for all other DCH type CCTrCHs.]

- [3.84 Mcps TDD and 7.68Mcps TDD - The maximum power and minimum power for a DSCH type CCTrCH to be modified, shall be determined as follows:

  - If the DSCH type CCTrCH is paired with an uplink CCTrCH(s) for inner loop power control, the minimum and maximum power for each PDSCH is determined in the same way as described above for DCH type CCTrCHs.

  - If the DSCH type CCTrCH is not paired with an uplink CCTrCH(s) for inner loop power control, the PDSCH transmission power is DSCH Data Frame Protocol signalled [24], with the maximum value determined in the same way as described above for DCH type CCTrCHs. The minimum power, however, is subject to control by the CRNC via the frame protocol].

- [1.28 Mcps TDD - If Maximum DL Power IE and/or Minimum DL Power IE are included within DL Timeslot Information LCR IE, the Node B shall apply the values in the new configuration for this timeslot within a DCH type CCTrCH, if the RL Information IE includes Maximum Downlink Power and/or the Minimum Downlink Power IEs, the Node B shall apply the values in the new configuration for all other timeslots.]

- [1.28 Mcps TDD - If the CCTrCH Maximum DL Transmission Power IE and/or the CCTrCH Minimum DL Transmission Power IE are included, the Node B shall apply the values in the new configuration for this DSCH type CCTrCH, if the RL Information IE includes the Maximum Downlink Power and/or the Minimum Downlink Power IEs, the Node B shall apply the values in the new configuration for other timeslots.]

- [FDD - If the concerned Node B Communication Context is configured to use DPCH in the downlink and if the RL Information IE contains the Transmission Gap Pattern Sequence Code Information IE in the DL Code Information IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]

- [1.28Mcps TDD - If the RL Information IE contains the Uplink Synchronisation Parameters LCR IE, the Node B shall use the indicated values of Uplink Synchronisation Stepsize IE and Uplink Synchronisation Frequency IE when evaluating the timing of the UL synchronisation.]

- [FDD - If the RL Information IE contains the F-DPCH Slot Format IE and if the Node B Communication Context is configured to use F-DPCH in the downlink, then the Node B shall use this information to configure the F-DPCH slot format of each RL according to [7].]

**Signalling Bearer Re-arrangement:**

If the RADIO LINK RECONFIGURATION REQUEST message includes the Signalling Bearer Request Indicator IE, the Node B shall allocate a new Communication Control Port for the control of the Node B Communication Context.
and include the Target Communication Control Port ID IE in the RADIO LINK RECONFIGURATION RESPONSE message.

**HS-DSCH Setup:**

If the *HS-DSCH Information* IE is present in the RADIO LINK RECONFIGURATION REQUEST message, then:

- The Node B shall setup the requested HS-PDSCH resources on the Serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE.

- The Node B shall include the *HARQ Memory Partitioning* IE in the [FDD - *HS-DSCH FDD Information Response* IE] [TDD - *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message. [FDD - The HARQ Memory Partitioning IE shall either contain the *HARQ Memory Partitioning Information Extension For MIMO* IE or the *Number of Processes* IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the *HS-DSCH Information* IE.] [1.28Mcps TDD - The HARQ Memory Partitioning IE shall either contain the *HARQ Memory Partitioning Information Extension For MIMO* IE or the *Number of Processes* IE set to a value higher than "8", if the MIMO Activation Indicator IE is included in the *HS-DSCH Information* IE.]

- If the RADIO LINK RECONFIGURATION REQUEST message includes the *MAC-hs Guaranteed Bit Rate* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Discard Timer* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION REQUEST message includes the *Maximum MAC-d PDU Size Extended* IE for a Priority Queue in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE, then the Node B shall ignore the SID IE and MAC-d PDU Size IE in the MAC-d PDU Size Index IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related HSDPA Priority Queue.

- The Node B shall include the *HS-DSCH Initial Capacity Allocation* IE in the [FDD - *HS-DSCH FDD Information Response* IE] [TDD - *HS-DSCH TDD Information Response* IE] in the RADIO LINK RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being established, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If RADIO LINK RECONFIGURATION REQUEST message includes *HS-DSCH MAC-d PDU Size Format* IE in the *HS-DSCH Information* IE set to "Flexible MAC-d PDU Size", then Node B shall only set in the *HS-DSCH Initial Capacity Allocation* IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION REQUEST in the *HS-DSCH MAC-d Flows Information* IE in the *HS-DSCH Information* IE for a Priority Queue including Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE.

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *HS-SCCH Power Offset* IE in the *HS-DSCH Information* IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Measurement Power Offset* IE in the *HS-DSCH Information* IE, then the Node B shall use the measurement power offset as described in ref [10], subclause 6A.2.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the *HS-SCCH Specific Information Response* IE in the *HS-DSCH FDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [TDD - The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD - *HS-SCCH Specific Information Response* IE] [1.28Mcps TDD - *HS-SCCH Specific Information Response LCR* IE] [7.68Mcps TDD - *HS-SCCH Specific Information Response 7.68Mcps* IE] in the *HS-DSCH TDD Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *HARQ Preamble Mode* IE in the *HS-DSCH Information* IE, then the Node B shall use the indicated HARQ Preamble Mode as described in
[10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the HARQ Preamble Mode IE is not included or if the mode 0 is applied, then the Node B shall not include the HARQ Preamble Mode Activation Indicator IE in the HS-DSCH Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-SICH SIR Target IE in the HS-DSCH Information IE, the Node B shall use this value to determine the HS-SICH SIR Target. The HS-SICH SIR Target IE indicates the received UL SIR target of HS-SICH NACK for this UE.]

- If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE in the HS-DSCH Information IE, then the Node B shall use the indicated format in user plane frame structure for HS-DSCH channels [24] and MAC-hs [32].

- [FDD - If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

- [FDD - If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B shall activate the MIMO mode for the HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the Sixtyfour QAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE with value set to "not allowed", then the Node B shall not use 64 QAM for the HS-DSCH Radio Link.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH MAC-d PDU Size Format IE set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

- [FDD - If the UE with enhanced HS-SCCH support indicator IE is included in the HS-DSCH FDD Information IE, then the Node B may use:]

  - [FDD - a different HS-SCCH in consecutive TTIs for this UE]

  - [FDD - HS-SCCH orders for the case of HS-SCCH-less operation to this UE]

- [FDD - If the UE Support Indicator Extension IE is included in the HS-DSCH FDD Information IE the Node B may use the supported HS-DPA functions for this UE.]

- [FDD - If secondary serving HS-DSCH is applied also in the new configuration, then any changes related to parameters that are common for both the serving and the secondary serving HS-DSCH should be applied also for the secondary serving HS-DSCH.]

- [1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK RECONFIGURATION REQUEST message includes the Number of Supported Carriers IE in the UE Capabilities Information IE in the HS-DSCH Information IE, the Node B shall use this information to allocate HSDPA resources over multiple frequencies for UE.]

- [1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK RECONFIGURATION REQUEST message includes the Multi-carrier HS-DSCH Physical Layer Category IE in the UE Capabilities Information IE in the HS-DSCH Information IE, the Node B shall use this information together with the HS-DSCH Physical Layer Category IE in the UE Capabilities Information IE in the HS-DSCH Information IE to allocate HSDPA resources over multiple carriers for the UE.]
- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the UE TS0 Capability LCR IE in the UE Capabilities Information IE in the HS-DSCH Information IE, the Node B may use this information in HSDPA resources allocation for the UE.]

- [1.28Mcps TDD - For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH over multiple frequencies and include the HS-SCCH Specific Information Response LCR per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [1.28Mcps TDD - For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B shall include the HARQ Memory Partitioning per UARFCN IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [1.28Mcps TDD - For a multi-frequency cell, if the Node B allows UE to use HSDPA resources distributed over multiple frequencies, the Node B may indicate the number of multiple frequencies actually used by the UE and include the Multi-Carrier number IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28 Mcps TDD - If the MIMO Activation Indicator IE is included in the HS-DSCH TDD Information IE, then, the Node B shall activate the MIMO mode for the HS-DSCH Radio Link, decide the SF mode for HS-PDSCH dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- If the RADIO LINK RECONFIGURATION REQUEST message includes DL RLC PDU Size Format IE for a Priority Queue in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, the DL RLC PDU Size Format IE may be used by the Node B to determine the allocated capacity on user plane as described in [24].

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the Priority Queue Information IE in the HS-DSCH MAC-d Flows Information IE in the HS-DSCH Information IE, the NodeB shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]

- [FDD - If the Single Stream MIMO Activation Indicator IE is included in the HS-DSCH FDD Information IE, then the Node B shall activate the Single Stream MIMO mode for the HS-DSCH Radio Link.]

[FDD – Secondary Serving HS-DSCH Setup:]

[FDD – If the C-ID IE is present in the Additional HS Cell Information RL Reconf Req IE in the RADIO LINK RECONFIGURATION REQUEST message, then:]

- [FDD – The Node B shall setup the requested HS-PDSCH resources on the secondary serving HS-DSCH Radio Link indicated by the HS-PDSCH RL ID IE. Non cell specific secondary serving Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-SCCH Power Offset IE in the HS-DSCH FDD Secondary Serving Information IE, then the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the secondary serving HS-DSCH and include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B shall activate the MIMO mode for the secondary serving HS-DSCH Radio Link and the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the MIMO N/M Ratio IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the Single Stream MIMO Activation Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B shall activate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link.]
- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information IE, then the Node B may if the value is set to “allowed” use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the Sixtyfour QAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Information IE with value set to "not allowed", then the Node B shall not use 64 QAM for the secondary serving HS-DSCH Radio Link.]

- [FDD - If, in the new configuration, the concerned Node B Communication Context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH Radio Link, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

Intra-Node B Serving HS-DSCH Radio Link Change:

If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-PDSCH RL ID IE, this indicates the new Serving HS-DSCH Radio Link:

- The Node B shall release the HS-PDSCH resources on the old Serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new Serving HS-DSCH Radio Link.

- The Node B may include the HARQ Memory Partitioning IE in the [FDD - HS-DSCH FDD Information Response IE] [TDD - HS-DSCH TDD Information Response IE] in the RADIO LINK RECONFIGURATION RESPONSE message. [FDD - The HARQ Memory Partitioning IE may contain the HARQ Memory Partitioning Information Extension For MIMO IE.] [1.28Mcps TDD - The HARQ Memory Partitioning IE may contain the HARQ Memory Partitioning Information Extension For MIMO IE.]

- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Information Response IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [TDD - The Node B shall allocate HS-SCCH parameters corresponding to the HS-DSCH and include the [3.84Mcps TDD - HS-SCCH Specific Information Response LCR IE] [1.28Mcps TDD - HS-SCCH Specific Information Response LCR IE] [7.68Mcps TDD - HS-SCCH Specific Information Response 7.68Mcps IE] in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

- If a reset of the MAC-hs is not required the Node B shall include the MAC-hs Reset Indicator IE in the RADIO LINK RECONFIGURATION RESPONSE message.

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH Information To Modify IE and the value is set to "allowed" or if HS-DSCH Information To Modify IE is not included and the Node B Communication Context is configured with Sixtyfour QAM allowed for the serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM in the new configuration, then it shall include the Sixtyfour QAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]


[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the C-ID IE and the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Reconf Req IE and the secondary serving HS-DSCH Radio Link has been configured in the Node B, then the HS-PDSCH RL ID IE indicates the new secondary serving HS-DSCH Radio Link:]

- [FDD - The Node B shall release the HS-PDSCH resources on the old secondary serving HS-DSCH Radio Link and setup the HS-PDSCH resources on the new secondary serving HS-DSCH Radio Link. The Node B shall remove the old secondary serving HS-PDSCH Radio Link. Non cell specific secondary serving if no E-DCH resources are allocated to the RL. Radio Link and non cell specific HS-DSCH parameters take the same values as for the serving HS-DSCH cell.]
- [FDD - The Node B shall allocate HS-SCCH codes corresponding to the HS-DSCH and include the HS-SCCH Specific Secondary Serving Information Response IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify IE and the value is set to "allowed" or if HS-DSCH FDD Secondary Serving Information To Modify IE is not included and the Node B Communication Context is configured with Sixtyfour QAM allowed for the secondary serving HS-DSCH Radio Link and not used in the current configuration and then if the Node B decides to use 64 QAM for the new secondary serving HS-DSCH Radio Link, then it shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD - Additional Serving E-DCH Radio Link Change to an existing additional non serving E-DCH RL:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the C-ID IE in the Additional HS Cell Information RL Reconf Req IE and an additional non serving E-DCH RL exists in the cell indicated by the C-ID IE, the HS-PDSCH RL ID IE in the HS Cell Information RL Reconf Req IE indicates the new Additional Serving E-DCH Radio Link.-]  

- [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-Arch in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]  

- [FDD - The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]  

- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]  

- [FDD – The Node B may include the E-RGCH/E-HICH Channelisation Code IE and/or the E-HICH Signature Sequence IE and/or the E-RGCH Signature Sequence IE or may alternatively include the E-RGCH Release Indicator IE in the E-DCH FDD DL Control Channel Information IE in the Additional Modified E-DCH FDD Information Response RL Reconf IE in the Additional E-DCH Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message for every E-DCH Radio Links on secondary UL frequency in the Node B.]  

[FDD - Additional Serving E-DCH Radio Link Change to a new RL:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Additional E-DCH RL Specific Information To Add IE in the Additional E-DCH Configuration Change Information IE in the Additional E-DCH Cell Information RL Reconf Req IE and the C-ID IE in the Additional HS Cell Information RL Reconf Req IE and there is no radio links in the cell indicated by the C-ID IE for the Node B Communication Context, the HS-PDSCH RL ID IE indicates the new Additional Serving E-DCH Radio Link on secondary UL frequency.]  

- [FDD - If the old Additional Serving E-DCH RL is within this Node B, the Node B shall de-allocate the E-Arch resources of the old Additional Serving E-DCH Radio Link at the activation of the new configuration.]  

- [FDD - In the new configuration the Node B shall allocate the E-DCH resources for the new additional serving E-DCH Radio Link on the secondary UL frequency. Non cell specific E-DCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]
- [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Additional Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding A-AGCH in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - The Node B may include in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]

- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

HS-DSCH Modification:

If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH Information To Modify Unsynchronised IE and if the Serving HS-DSCH Radio Link is in the Node B, then:

- The Node B shall include the HS-DSCH Initial Capacity Allocation IE for every HS-DSCH MAC-d flow being modified for which the establishment of one or several new Priority Queues was requested, if the Node B allows the CRNC to start the transmission of MAC-d PDUs for the Priority Queue(s) being established before the Node B has allocated capacity on user plane as described in [24]. If Node B Communication Context is configured to use the "Flexible MAC-d PDU Size", then Node B shall only set in the HS-DSCH Initial Capacity Allocation IE the values for the peer of Scheduling Priority Indicator IE and Maximum MAC-d PDU Size Extended IE to the values of the corresponding peer for the Priority Queue of Node B Communication Context.

- If the RADIO LINK RECONFIGURATION REQUEST message includes the MAC-hs Guaranteed Bit Rate IE in the HS-DSCH Information To Modify Unsynchronised IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION REQUEST message includes the Discard Timer IE for a Priority Queue in the HS-DSCH Information To Modify Unsynchronised IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the ACK Power Offset IE, the NACK Power Offset IE or the CQI Power Offset IE in the HS-DSCH Information To Modify Unsynchronised IE, then the Node B shall use the indicated ACK Power Offset, the NACK Power Offset or the CQI Power Offset in the new configuration.]

- [FDD - If the HS-SCCH Power Offset IE is included in the HS-DSCH Information To Modify Unsynchronised IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any HS-SCCH transmission to this UE.]

- [TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the TDD ACK NACK Power Offset IE in the HS-DSCH Information To Modify Unsynchronised IE, the Node B shall use the indicated power offset in the new configuration.]

- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-SICH SIR Target IE in the HS-DSCH Information To Modify Unsynchronised IE, the Node B shall use this value to the SIR Target in the new configuration. The HS-SICH SIR Target IE indicates the received UL SIR target of HS-SICH NACK for this UE.]

- [1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-SICH TPC step size IE in the HS-DSCH Information To Modify Unsynchronised IE, the Node B shall use this value to the HS-SICH TPC step size in the new configuration.]

- [1.28Mcps TDD - For a multi-frequency cell, if the RADIO LINK RECONFIGURATION REQUEST message includes the Multi-carrier HS-DSCH Physical Layer Category IE in the UE Capabilities Information IE in the HS-DSCH Information To Modify Unsynchronised IE, the Node B shall use this information together with the...
**HS-DSCH Physical Layer Category** IE in the **UE Capabilities Information** IE in the **HS-DSCH Information To Modify Unsynchronised** IE to allocate HSDPA resources over multiple carriers for the UE.

- [1.28Mcps TDD] - If the RADIO LINK RECONFIGURATION REQUEST message includes the **UE TS0 Capability LCR** IE in the **UE Capabilities Information** IE in the **HS-DSCH Information To Modify Unsynchronised** IE, the Node B may use this information in HSDPA resources allocation for the UE.

- [FDD] - If the RADIO LINK RECONFIGURATION REQUEST message includes the **HARQ Preamble Mode** IE in the **HS-DSCH Information To Modify Unsynchronised** IE, then the Node B shall use the indicated HARQ Preamble Mode in the new configuration as described in [10], if HS-DPCCH ACK/NACK preamble and postamble is supported. Then, in this case, if the mode 1 is applied, the Node B shall include the **HARQ Preamble Mode Activation Indicator** IE in the **HS-DSCH Information Response** IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the **HARQ Preamble Mode** IE is not included or if the mode 0 is applied, then the Node B shall not include the **HARQ Preamble Mode Activation Indicator** IE in the **HS-DSCH Information Response** IE in the RADIO LINK RECONFIGURATION RESPONSE message.

- [FDD] - If the **MIMO Mode Indicator** IE is included in the **HS-DSCH Information To Modify Unsynchronised** IE, then the Node B shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in accordance with the **MIMO Mode Indicator** IE.

- [FDD] - If the **MIMO Mode Indicator** IE is set to "Activate", then the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the **MIMO N/M Ratio** IE in the **HS-DSCH FDD Information Response** IE in the RADIO LINK RECONFIGURATION RESPONSE message.

- [FDD] - If the **Sixtyfour QAM Usage Allowed Indicator** IE is included in the **HS-DSCH Information To Modify Unsynchronised** IE, then the Node B may if the value is set to "allowed" use 64 QAM for the HS-DSCH Radio Link, and the Node B shall include the **Sixtyfour QAM DL Usage Indicator** IE in the **HS-DSCH FDD Information Response** IE in the RADIO LINK RECONFIGURATION RESPONSE message.

- [FDD] - If Mac-ehs is applied in the new configuration, and if Sixtyfour QAM will not be used, the Node B shall include the **HS-DSCH TB Size Table Indicator** IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.

- [FDD] - Any secondary serving HS-DSCH that was applied in the old configuration shall remain in the new configuration unless it is explicitly removed.

- [FDD] - If secondary serving HS-DSCH is applied also in the new configuration, then any changes related to parameters that are common for both the serving and the secondary serving HS-DSCH should be applied also for the secondary serving HS-DSCH.

- [1.28Mcps TDD] - If the RADIO LINK RECONFIGURATION REQUEST message includes the **HS-DSCH Physical Layer Category** IE in the **HS-DSCH Information To Modify Unsynchronised** IE, the Node B shall use this information in the new configuration and may include the **HARQ Memory Partitioning** IE in the RADIO LINK RECONFIGURATION RESPONSE message. The **HARQ Memory Partitioning** IE may contain the **HARQ Memory Partitioning Information Extension For MIMO** IE.

- [1.28Mcps TDD] - If the **MIMO Mode Indicator** IE is included in the **HS-DSCH Information To Modify Unsynchronised** IE, then the Node B shall activate/deactivate the MIMO mode for the HS-DSCH Radio Link in accordance with the **MIMO Mode Indicator** IE.
ETSI TS 125 433 V9.5.0 (2011-03)

3GPP TS 25.433 version 9.5.0 Release 9

- [1.28 Mcps TDD - If the MIMO Mode Indicator IE is set to "Activate", then the Node B shall decide the SF mode for HS-PDSCH dual stream and include the MIMO SF Mode for HS-PDSCH dual stream IE in the HS-DSCH TDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the UE Support Indicator Extension IE is included in the HS-DSCH Information To Modify Un synchronised IE the Node B may use the supported HSDPA functions for this UE.]

- [FDD - If the Single Stream MIMO Mode Indicator IE is included in the HS-DSCH Information To Modify Un synchronised IE, then the Node B shall activate/deactivate the Single Stream MIMO mode for the HS-DSCH Radio Link in accordance with the Single Stream MIMO Mode Indicator IE.]

[FDD – Secondary Serving HS-DSCH Modification:]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH FDD Secondary Serving Information To Modify Un synchronised IE in the Additional HS Cell Information RL Reconf Req IE and if the Secondary Serving HS-DSCH Radio Link is in the Node B, then:]

- [FDD - If the HS-SCCH Power Offset IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Un synchronised IE, the Node B may use this value to determine the HS-SCCH power. The HS-SCCH Power Offset should be applied for any secondary serving HS-SCCH transmission to this UE.]

- [FDD - If the MIMO Mode Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Un synchronised IE, then the Node B shall activate/deactivate the MIMO mode for the the secondary serving HS-DSCH Radio Link in accordance with the MIMO Mode Indicator IE.]

- [FDD - If the MIMO Mode Indicator IE is set to "Activate", then the Node B shall decide the UE reporting configuration (N/M ratio) according to [10] for MIMO and include the MIMO N/M Ratio IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the Single Stream MIMO Mode Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Un synchronised IE, then the Node B shall activate/deactivate the Single Stream MIMO mode for the secondary serving HS-DSCH Radio Link in accordance with the Single Stream MIMO Mode Indicator IE.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Un synchronised IE, then the Node B may if the value is set to "allowed" use 64 QAM for the secondary serving HS-DSCH Radio Link, and the Node B shall include the SixtyfourQAM DL Usage Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the Sixtyfour QAM Usage Allowed Indicator IE is included in the HS-DSCH FDD Secondary Serving Information To Modify Un synchronised IE with value set to "not allowed", then the Node B shall not use 64 QAM for the Secondary Serving HS-DSCH Radio Link.]

- [FDD - If, in the new configuration, the concerned Node B Communication Context is configured not to use Sixtyfour QAM for the secondary serving HS-DSCH Radio Link, the Node B shall include the HS-DSCH TB Size Table Indicator IE in the HS-DSCH FDD Secondary Serving Information Response IE in the Additional HS Cell Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message if it decides to use the octet aligned table defined in [32] for HS-DSCH Transport Block Size signalling.]

[FDD – Secondary Serving HS-DSCH Removal:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH Secondary Serving Remove IE in the Additional HS Cell Information RL Reconf Req IE, then the indicated secondary serving HS-DSCH Radio Link shall be removed.]

HS-DSCH MAC-d Flow Addition/Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any HS-DSCH MAC-d Flows To Add or HS-DSCH MAC-d Flows To Delete IEs and if the Serving HS-DSCH Radio Link is in the Node B, then the Node B shall use this information to add/delete the indicated HS-DSCH MAC-d flows on the Serving HS-DSCH Radio Link. When an HS-DSCH MAC-d flow is deleted, all its associated Priority Queues shall also be removed.
If the RADIO LINK RECONFIGURATION REQUEST message includes an **HS-DSCH MAC-d Flows To Delete** IE requesting the deletion of all remaining HS-DSCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the HS-DSCH configuration from the Node B Communication Context and release any existing HS-PDSCH resources.

If the RADIO LINK RECONFIGURATION REQUEST message includes the **HS-DSCH MAC-d Flows To Add** IE and if the Serving HS-DSCH Radio Link is in the Node B, then:

- The Node B shall include the **HS-DSCH Initial Capacity Allocation** IE in the RADIO LINK RECONFIGURATION RESPONSE message for every HS-DSCH MAC-d flow being added, if the Node B allows the CRNC to start transmission of MAC-d PDUs before the Node B has allocated capacity on user plane as described in [24]. If Node B Communication Context is configured to use the ”Flexible MAC-d PDU Size” format for the HS-DSCH, then Node B shall only set in the **HS-DSCH Initial Capacity Allocation** IE the values for the peer of **Scheduling Priority Indicator** IE and **Maximum MAC-d PDU Size Extended** IE to the values of the corresponding peer received in RADIO LINK RECONFIGURATION REQUEST message in the **HS-DSCH MAC-d Flows To Add** IE for a Priority Queue including **Scheduling Priority Indicator** IE and **Maximum MAC-d PDU Size Extended** IE.

- If the RADIO LINK RECONFIGURATION REQUEST message includes the **MAC-hs Guaranteed Bit Rate** IE in the **HS-DSCH MAC-d Flows To Add** IE, the Node B shall use this information to optimise MAC-hs scheduling decisions for the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION REQUEST message includes the **Discard Timer** IE for a Priority Queue in the **HS-DSCH MAC-d Flows To Add** IE, then the Node B shall use this information to discard out-of-date MAC-hs SDUs from the related HSDPA Priority Queue.

- If the RADIO LINK RECONFIGURATION REQUEST message includes the **Maximum MAC-d PDU Size Extended** IE for a Priority Queue in the **HS-DSCH MAC-d Flows To Add** IE, then the Node B shall ignore the **SID** IE and **MAC-d PDU Size** IE in the **MAC-d PDU Size Index** IE and use **Maximum MAC-d PDU Size Extended** IE to optimise capacity allocation for the related HSDPA Priority Queue.

- [FDD - If the **TNL QoS** IE is included for a MAC-d flow and if ALCAP is not used, the **TNL QoS** IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

- If the RADIO LINK RECONFIGURATION REQUEST message includes the **DL RLC PDU Size Format** IE for a Priority Queue in the **HS-DSCH MAC-d Flows To Add** IE, the **DL RLC PDU Size Format** IE may be used by the Node B to determine the allocated capacity on user plane as described in [24].

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the **UE Aggregate Maximum Bit Rate Enforcement Indicator** IE for a Priority Queue in the **HS-DSCH MAC-d Flows To Add** IE, the NodeB shall, if supported, consider the data of the related HSDPA Priority Queue for UE Aggregate Maximum Bit Rate Enforcement.]

**[FDD – HS-DSCH Preconfiguration for Enhanced HS Serving Cell Change]**

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the **HS-DSCH Preconfiguration Setup** IE in the **RL Information** IE the Node B shall if supported preconfigure the indicated cells for Enhanced HS Serving Cell Change according to [49]: ]

- [FDD – The Node B shall preconfigure sets of HS-SCCH codes on the cells preconfigured for HS-DSCH, primary serving HS-DSCH cell, as well as on the secondary serving HS-DSCH cells. The primary serving HS-DSCH cell is designated through the **C-ID** IE part of the **RL Information** IE in the RADIO LINK RECONFIGURATION REQUEST message. The list of secondary serving HS-DSCH cells is designated by the list of **C-IDs** in the **HS-DSCH Preconfiguration Setup** IE part of the **RL Information** IE in the RADIO LINK RECONFIGURATION REQUEST message. ]

- [FDD – The number of HS-SCCH codes to preconfigure for each cell may be optionally specified: ]
  - [FDD – by the **Num Primary HS-SCCH Codes** IE in the **HS-DSCH Preconfiguration Setup** IE, for the primary serving HS-DSCH cell]
  - [FDD – by the **Num Secondary HS-SCCH Codes** IE in the **Secondary Cells** IE in the **HS-DSCH Preconfiguration Setup** IE for each of the secondary serving HS-DSCH cells]
- [FDD – If Num Primary HS-SCCH Codes IE or Num Secondary HS-SCCH Codes IE is not included in the message, the number and distribution of codes on primary and any secondary cells shall be preconfigured to satisfy any limitations in [10]. ]

- [FDD – The Node B shall return these codes in the Sets of HS-SCCH Codes IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE of the RADIO LINK RECONFIGURATION RESPONSE message. ]

- [FDD – The Node B shall use the first in the numbered list of the primary serving HS-DSCH cell”s HS-SCCH codes in the HS-SCCH Preconfigured Codes IE sent to the RNC to signal the Target Cell HS-SCCH Order defined in [18]. ]

- [FDD – The Node B shall include, in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message, IEs according to the rules defined for HS-DSCH Setup and: ]
  - [FDD – if HARQ Preamble Mode IE is included in the HS-DSCH Preconfiguration Setup IE the HARQ Preamble Mode Activation Indicator IE]
  - [FDD – if MIMO Activation Indicator IE is included in the HS-DSCH Preconfiguration Setup IE or in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE the MIMO N/M Ratio IE ]
  - [FDD – if HS-DSCH MAC-d PDU Size Format IE is included in the HS-DSCH Preconfiguration Setup IE and set to "Flexible MAC-d PDU Size" and if Sixtyfour QAM will not be used in the preconfigured configuration the HS-DSCH TB Size Table Indicator IE for each preconfigured cell]
  - [FDD – if Sixtyfour QAM Usage Allowed Indicator IE is included in the Secondary Cells IE in the HS-DSCH Preconfiguration Setup IE or in the HS-DSCH Preconfiguration Setup IE the SixtyfourQAM DL Usage Indicator IE for each preconfigured cell]
  - [FDD – if Continuous Packet Connectivity HS-SCCH less Information IE is included in the HS-DSCH Preconfiguration Setup IE the Continuous Packet Connectivity HS-SCCH less Information Response IE]
  - [FDD – if the UE with enhanced HS-SCCH support indicator IE is included in the HS-DSCH Preconfiguration Setup IE, then the Node B shall store this information in the preconfigured configuration. ]
  - [FDD – if the UE Support Indicator Extension IE is included in the HS-DSCH Preconfiguration Setup IE, then the Node B may store this information in the preconfigured configuration. ]

- [FDD – The Node B shall include in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message the E-DCH FDD DL Control Channel Information containing the preconfigured configuration of the E-DCH serving cell according to the rules defined for Serving E-DCH Radio Link Change as follows:]
  - [FDD – The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE.]
  - [FDD – The Node B may configure for the preconfigured configuration the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the serving E-DCH RL and include these values in the E-DCH FDD DL Control Channel Information IE.]
  - [FDD – The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE.]

- [FDD – If the HS-DSCH Preconfiguration Setup IE includes the E-DCH Indicator IE for a secondary cell, the Node B shall include in the Additional E-DCH Preconfiguration Information IE in the HS-DSCH Preconfiguration Info IE in the RL Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message the E-DCH FDD DL Control Channel Information containing the preconfigured configuration of the Additional E-DCH serving cell, corresponding to the cell indicated with the E-DCH Indicator IE, according to the rules defined for Serving Additional E-DCH Radio Link Change as follows:]

- [FDD – The Node B shall allocate for the preconfigured configuration a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving Additional E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE.]
- [FDD – The Node B may configure for the preconfigured configuration the Serving Grant Value IE and Primary/Secondary Grant Selector IE for the initial grant for the serving Additional E-DCH RL and include these values in the E-DCH FDD DL Control Channel Information IE.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the Non-Serving Preconfiguration Setup IE in the RL Information IE and:]

- [FDD – if the choice of new Serving RL is "New Serving RL in the Node B", the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE and/or New non-serving RL E-DCH FDD DL Control Channel Information B IE in the Non-Serving RL Preconfiguration Info IE for the RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD – if the choice of new Serving RL is "New Serving RL Not in the Node B", the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information C IE in the Non-Serving RL Preconfiguration Info IE for the RL in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD – if the choice of new Serving RL is "New Serving RL in the Node B or New Serving RL Not in the Node B", the Node B may include the New non-serving RL E-DCH FDD DL Control Channel Information A IE, the New non-serving RL E-DCH FDD DL Control Channel Information B IE and/or the New non-serving RL E-DCH FDD DL Control Channel Information C IE for the RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD – if the Additional E-DCH Non-Serving RL Preconfiguration Setup IE is included, the Node B may include the New non-serving E-DCH RL FDD DL Control Channel Information A IE, the New non-serving E-DCH RL FDD DL Control Channel Information B IE and/or the New non-serving E-DCH RL FDD DL Control Channel Information C IE according to the choice of new Serving RL in Additional E-DCH Non-serving RL E-DCH FDD DL Control Channel Information IE for the additional non-servicing E-DCH RL in the Non-Serving RL Preconfiguration Info IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD – Enhanced HS Serving Cell Change:]

[FDD - Upon receipt of the RADIO LINK RECONFIGURATION REQUEST message, if the Enhanced HS Serving Cell Change is preconfigured in the Node B for the Node B Communication Context, the Node B may execute the Enhanced HS Serving Cell Change procedure according to [49]]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Enhanced HS Serving CC Abort IE in the HS-DSCH Information To Modify Unsynchronised IE or the HS-DSCH FDD Information IE then the Node B shall not execute the unsynchronized Enhanced HS Serving Cell Change procedure when performing the Intra-Node B Serving HS-DSCH Radio Link Change or, at inter Node B radio link change, the HS-DSCH Setup.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the No of Target Cell HS-SCCH Order IE then the Node B shall repeat the Target Cell HS-SCCH Order on the HS-SCCH the number of times defined in the IE.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Non-Serving RL Preconfiguration Removal IE, the Node B shall remove the corresponding preconfigured E-DCH DL Control Channel Information according to the information.]

[FDD - E-DCH Setup:]

[FDD - If the E-DCH FDD Information IE is present in the RADIO LINK RECONFIGURATION REQUEST message:]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH Logical Channel information IE in the E-DCH MAC-d Flows Information IE, then the Node B shall use this information to optimise MAC-e scheduling decisions.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH Information IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel and use the indicated format in user plane frame structure for E-DCH channels [24] and MAC [32].]
- [FDD - If the TNL QoS IE is included for an E-DCH MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink for the related MAC-d flow.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the Node B shall use this information for the related resource allocation operation.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Reference Power Offset IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Power Offset for Scheduling Info IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Serving E-DCH RL IE:]

  - [FDD - the Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

  - [FDD - The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the serving E-DCH RL.]

  - [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

  - [FDD - The Node B may include the Default Serving Grant in DTX Cycle 2 IE in the RADIO LINK RECONFIGURATION RESPONSE message for the serving E-DCH RL.]

  - [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH MAC-d Flow Multiplexing List IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]

  - [FDD - If in the RADIO LINK RECONFIGURATION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Non-Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]

  - [FDD - If in the RADIO LINK RECONFIGURATION REQUEST message the E-DCH Grant Type is indicated as being "E-DCH Scheduled Transmission Grant" for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]

  - [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Bundling Mode Indicator IE for an E-DCH MAC-d flow in the E-DCH MAC-d Flow Specific Information IE in the E-DCH FDD Information IE and the Bundling Mode Indicator IE is set to "Bundling" and the E-TTI IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]

  - [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Maximum Bitrate IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

  - [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Processing Overload Level IE, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the E-DCH Processing Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]
- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-AGCH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-RGCH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-HICH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DPCH Information IE which contains the HS-DSCH Configured Indicator IE and/or the Maximum Set of E-DPDCHs IE, and/or the Puncture Limit IE and/or the E-TTI IE, the Node B shall use and apply the value(s) in the new configuration.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the SixteenQAM UL Operation Indicator IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the SixteenQAM UL Operation Indicator IE.]

- [FDD - If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the E-DCH Logical Channel Information IE in the E-DCH FDD Information IE, the NodeB shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]

[FDD - E-DCH Radio Link Handling:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH RL Indication IE in the RL Information IE:]  
- [FDD - The Node B shall setup the E-DCH resources, as requested or as configured in the Node B communication context, on the Radio Links indicated by the E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE.]

- [FDD - The Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK RECONFIGURATION RESPONSE message for every RL indicated by the E-DCH RL Indication IE, set to "E-DCH", in the RL Information IE.]

- [FDD - The Node B shall remove the E-DCH resources, if any, on the Radio Links, that are indicated by the E-DCH RL Indication set to "Non E-DCH".]

- [FDD - For each RL for which the E-DCH RL Indication IE is set to "E-DCH", and which has or can have a common generation of E-RGCH information with another RL (current or future) when the Node B would contain the E-DCH serving RL, the Node B shall include the E-DCH RL Set ID IE in the RADIO LINK RECONFIGURATION RESPONSE message. The value of the E-DCH RL Set ID IE shall allow the RNC to identify the E-DCH RLs that have or can have a common generation of E-RGCH information.]

[FDD - Serving E-DCH Radio Link Change:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Serving E-DCH RL IE, this indicates the new Serving E-DCH Radio Link:]  
- [FDD - If the old Serving E-DCH RL is in this Node B, the Node B shall de-allocate the E-AGCH resources of the old Serving E-DCH Radio Link.]

- [FDD - If the New Serving E-DCH RL is in this Node B:]  
  - [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the new Serving E-DCH Radio Link and include these E-RNTI identifiers along with the channelisation code
of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the new serving E-DCH RL.]

- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - The Node B may include the Default Serving Grant in DTX Cycle 2 IE in the RADIO LINK RECONFIGURATION RESPONSE message for the new serving E-DCH RL.]

- [FDD - The Node B may include the E-RGCH/E-HICH Channelisation Code IE and/or the E-HICH Signature Sequence IE and/or the E-RGCH Signature Sequence IE or may alternatively include the E-RGCH Release Indicator IE in the E-DCH FDD DL Control Channel Information IE in the RADIO LINK RECONFIGURATION RESPONSE message for every E-DCH Radio Links in the Node B.]

[FDD - E-DCH Modification:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH FDD Information To Modify IE, then:]

- [FDD - If the E-DCH FDD Information To Modify IE contains a E-DCH MAC-d Flow Specific Information IE which includes the Allocation/Retention Priority IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Maximum Number of Retransmissions for E-DCH IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH HARQ Power Offset FDD IE in the E-DCH FDD Information To Modify IE for an E-DCH MAC-d flow the Node B shall use this information for calculating the unquantised gain factor for an E-TFC (βed,j,uq) as defined in [10].]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH MAC-d Flow Multiplexing List IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the E-DCH Grant Type and it is indicated as being “E-DCH Non-Scheduled Transmission Grant” for an E-DCH MAC-d flow the Node B shall assume non-scheduled grants being configured for that E-DCH MAC-d flow and shall use the information within the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE, if included, for the related resource allocation operation.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Grant Type and it is indicated as being “E-DCH Scheduled Transmission Grant” for an E-DCH MAC-d flow the Node B shall assume scheduled grants being configured for that E-DCH MAC-d flow.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Logical Channel To Add or E-DCH Logical Channel To Delete IEs, the Node B shall use this information to add/delete the indicated logical channels. When an logical channel is deleted, all its associated configuration data shall also removed.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Logical Channel To Modify IE, the Node B shall use this information to modify the indicated logical channels:]

  - [FDD - If the E-DCH Logical Channel To Modify IE includes Scheduling Priority Indicator IE, the Node B shall apply the values in the new configuration.]

  - [FDD - If the E-DCH Logical Channel To Modify IE includes Scheduling Information IE, the Node B shall apply the values in the new configuration.]
- [FDD - If the E-DCH Logical Channel To Modify IE includes MAC-es Guaranteed Bit Rate IE, the Node B shall apply the values in the new configuration.]

- [FDD - If the E-DCH Logical Channel To Modify IE includes E-DCH DDI Value IE, the Node B shall apply the values in the new configuration.]

- [FDD - If the E-DCH Logical Channel To Modify IE includes the Maximum MAC-d PDU Size Extended IE, the Node B shall apply the value in the new configuration.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Bundling Mode Indicator IE for an E-DCH MAC-d flow in the E-DCH MAC-d Flow Specific Information IE in the E-DCH FDD Information To Modify IE and the Bundling Mode Indicator IE is set to "Bundling" and the E-TTI IE is set to "2ms", then the Node B shall use the bundling mode for the E-DCH UL data frames for the related MAC-d flow, otherwise the Node B shall use the non-bundling mode for the E-DCH UL data frames for the related MAC-d flow.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the Node B shall use this information for the related resource allocation operation.]

- [FDD - If the E-DCH serving RL is in this Node B, the Node B may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled and/or non-scheduled transmission. In this case the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Maximum Bitrate IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Processing Overload Level IE, then if the Node B could not decode the DPCCH/DPDCH for the last consecutive number of TTIs, indicated in the E-DCH Processing Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Reference Power Offset IE, then the Node B may use this value as a default HARQ power offset if it is not able to decode the MAC-e PDU and to determine the value of the actual HARQ power offset.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Power Offset for Scheduling Info IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-AGCH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-AGCH power. The E-AGCH Power Offset should be applied for any E-AGCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-RGCH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-RGCH power for the RL. The E-RGCH Power Offset should be applied for any E-RGCH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-HICH Power Offset IE in the RL Specific E-DCH Information IE, then the Node B may use this value to determine the E-HICH power for the RL. The E-HICH Power Offset should be applied for any E-HICH transmission to this UE.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the SixteenQAM UL Operation Indicator IE in the E-DCH FDD Information To Modify IE, the Node B shall activate/deactivate SixteenQAM UL Operation for the RL in accordance with the SixteenQAM UL Operation Indicator IE.]

- [FDD - If SixteenQAM UL Operation is activated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 2 according to [32]. If SixteenQAM UL Operation is deactivated, then the Node B shall base the handling of the Relative Grant signalling on Scheduling Grant Table 1 according to [32].]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH DL Control Channel Grant Information IE in the E-DCH FDD Information To Modify IE, the Node B may modify E-AGCH Channelisation Code, E-RGCH/E-HICH Channelisation Code, E-RGCH Signature Sequence and/or E-HICH...
Signature Sequence for the E-DCH RL indicated by the E-DCH RL ID IE. The Node B shall then report the modified configuration which is used in the new configuration specified in the E-DCH FDD DL Control Channel Information IE for each E-DCH RL in the RADIO LINK RECONFIGURATION RESPONSE message.

[FDD - E-DCH MAC-d Flow Addition/Deletion:]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any E-DCH MAC-d Flows To Add or E-DCH MAC-d Flows To Delete IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH MAC-d Flows To Add IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an E-DCH MAC-d Flows To Delete IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH MAC-d Flows To Add IE, then:]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH MAC-d Flows To Add IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]

- [FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the UE Aggregate Maximum Bit Rate Enforcement Indicator IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows To Add IE, the Node B shall, if supported, consider the data of the related E-DCH Logical Channel for UE Aggregate Maximum Bit Rate Enforcement.]

[FDD – Additional E-DCH Setup:]

[FDD - If the Additional E-DCH Cell Information RL Reconf Req IE is present in the RADIO LINK RECONFIGURATION REQUEST message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is "Setup", then: the Additional E-DCH Cell Information Setup IE defines the new configuration and then:]

- [FDD - If the C-ID IE is included in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the C-ID IE indicates the cell in which the additional E-DCH shall be setup.]

- [FDD - The Node B shall setup the E-DCH on the secondary uplink frequency and setup the requested E-DCH resources on the Radio Links and in the cells indicated by the E-DCH Additional RL ID IE and the C-ID IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE.]

- [FDD - If the C-ID IE is not included in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the E-DCH Additional RL ID IE indicates the existing RL on which the additional E-DCH shall be setup.]

- [FDD - The Node B shall setup the additional E-DCH on the Radio Links indicated by the E-DCH Additional RL ID IE in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE.]

- [FDD - The Node B shall use for the non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters the same values as for the corresponding cell of the Primary uplink frequency.]

- [FDD - If the DL Power Balancing Information IE and/or the Minimum Reduced E-DPDCH Gain Factor IE are present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]
- [FDD - If the Secondary UL Frequency Activation State is present in the Multicell E-DCH Information IE in the Additional E-DCH FDD Setup Information IE, the Node B shall use the information as initial activation state of the Radio Links on the secondary uplink frequency.]

- [FDD - If the F-DPCH Slot Format IE is present in the Additional E-DCH RL Specific Information To Setup IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the Primary CPICH Usage For Channel Estimation IE, the Secondary CPICH Information, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE and/or the E-HICH Power Offset IE are present in the Multicell E-DCH RL Specific Information IE in the Additional E-DCH RL Specific Information To Setup IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE, the E-DCH Maximum Bitrate IE, the E-DCH Minimum Set E-TFCI IE and/or the E-DCH Processing Overload Level IE are present in the Additional E-DCH FDD Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If activation of power balancing for the Additional E-DCH RL by the RADIO LINK RECONFIGURATION REQUEST message is supported by the Node B, the Node B shall include the DL Power Balancing Activation Indicator IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message a value that uniquely identifies the RL Set within the Node B Communication Context. And the generation of E-HICH related information for Additional E-DCH RLs in different RL Sets shall not be common.]

- [FDD - For all Additional E-DCH RLs having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message the same value. This value shall uniquely identify the RL Set within the Node B Communication Context. And the generation of E-HICH information for all Additional E-DCH RLs in a RL Set shall be common.]

- [FDD - For each Additional E-DCH RL which has or can have a common generation of E-RGCH information with another Additional E-DCH RL (current or future) when the Node B would contain the Additional E-DCH serving RL, the Node B shall set a same value to the E-DCH RL Set ID IE for the Additional E-DCH RL in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - For every additional E-DCH RL indicated in the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE the Node B may include the E-AGCH And E-RGCH/E-HICH FDD Scrambling Code IE and shall include the E-RGCH/E-HICH Channelisation Code IE and the corresponding E-HICH Signature Sequence IE and the Node B may include the corresponding E-RGCH Signature Sequence IE for each Additional E-DCH RL in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - If the Additional Serving E-DCH Radio Link is configured in the Node B, then:]

- [FDD - The Node B shall allocate a primary E-RNTI identifier or a secondary E-RNTI identifier or both for the corresponding RL and include these E-RNTI identifiers and the channelisation code of the corresponding E-AGCH in the E-DCH FDD DL Control Channel Information IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [FDD - The Node B may include the Serving Grant Value IE and Primary/Secondary Grant Selector IE in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message for the initial grant for the Additional serving E-DCH RL and may include the Default Serving Grant in DTX Cycle 2 IE.]
- [FDD - If the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission shall be changed, the Node B shall allocate resources according to the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE and include the new/changed configuration in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD – Additional E-DCH Configuration Change]

[FDD - If the Additional E-DCH Cell Information RL Reconf Req IE is present in the RADIO LINK RECONFIGURATION REQUEST message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is "Configuration Change", then: the Additional E-DCH Cell Information Configuration Change IE defines the new configuration and then]

- [FDD - If the UL Scrambling Code IE and/or the UL SIR Target IE are present in the UL DPCH Information IE in the Additional E-DCH Configuration Change Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the Minimum Reduced E-DPDCCH Gain Factor IE is present in the Multicell E-DCH Information IE in the Additional E-DCH Configuration Change Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the F-DPCH Information IE is present in the Additional E-DCH Configuration Change Information IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

[FDD – Additional E-DCH RL Addition:]

[FDD - If the Additional E-DCH RL Specific Information To Add IE is present in the Additional E-DCH Configuration Change Information IE, then:]

- [FDD - The Node B shall setup the E-DCH resources, as requested or as configured in the Node B Communication Context, on the Radio Links indicated by the E-DCH Additional RL ID IE. Non cell specific Radio Link related parameters and non cell specific E-DPCH, UL DPCH, E-DCH and F-DPCH parameters shall take the same values as for the corresponding cell of the Primary uplink frequency.]

- [FDD - If the Initial DL Transmission Power IE, the Maximum DL Power IE, the Minimum DL Power IE and/or the F-DPCH Slot Format IE are present in the Additional E-DCH RL Specific Information To Add IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the DL Reference Power IE, the E-AGCH Power Offset IE, the E-RGCH PowerOffset IE, and/or the E-HICH Power Offset IE are present in the Multicell E-DCH RL Specific Information IE in the Additional E-DCH RL Specific Information To Add IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]

- [FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing Additional E-DCH RL(s) and the RADIO LINK RECONFIGURATION REQUEST message includes the DL Reference Power IE, the Node B shall activate the power balancing and use the DL Reference Power IE for the power balancing procedure in the new Additional E-DCH RL(s), if activation of power balancing by the RADIO LINK RECONFIGURATION RESPONSE message is supported, according to subclause 8.3.7. In this case, the Node B shall include the DL Power Balancing Activation Indicator IE in the E-DCH Additional RL Specific Information Response IE in the Additional E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing, i.e. \( P_{init} \), shall be set to the power level indicated by the Initial DL Transmission Power IE (if received) in the Additional E-DCH RL Specific Information To Add IE or the decided DL TX power level on each DL channelisation code of an Additional E-DCH RL based on power level of existing Additional E-DCH RLs.]

- [FDD - For each Additional E-DCH RL not having a common generation of the TPC commands in the DL with another Additional E-DCH RL, the Node B shall assign the RL Set ID IE included in the Additional E-DCH FDD Information Response IE in the Additional E-DCH Cell Information...
**FDD – Additional E-DCH RL Modification:**

- **FDD - If the Additional E-DCH RL Specific Information To Modify IE is present in the Additional E-DCH Configuration Change Information IE, then:**
  
  - **FDD - If the Maximum DL Power IE, the Minimum DL Power IE, and/or the F-DPCH Slot Format IE are present in the Additional E-DCH RL Specific Information To Modify IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]**

- **FDD - If the DL Reference Power IE, the Primary CPICH Usage For Channel Estimation IE, the Secondary CPICH Information Change IE, the E-AGCH Power Offset IE, the E-RGCH Power Offset IE, the E-HICH Power Offset IE and/or the E-DCH DL Control Channel Grant IE are present in the Multicell E-DCH RL Specific Information IE in the Additional E-DCH RL Specific Information To Modify IE, the Node B shall use the information same way as in the information is used on Primary uplink frequency.]**

- **FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the Node B, the Node B shall include the DL Power Balancing Updated Indicator IE in the Additional Modified E-DCH FDD Information Response IE in the Additional E-DCH Cell Information Response RL Reconf IE for each affected RL in the RADIO LINK RECONFIGURATION RESPONSE message.]**

**FDD – Additional E-DCH Modification:**

- **FDD - If the Additional E-DCH FDD Information To Modify IE is present in the Additional E-DCH Configuration Change Information IE, then:**
  
  - **FDD - If the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE and/or the E-DCH Minimum Set E-TFCI IE is included, the Node B shall use this information for the related resource allocation operation.]**

- **FDD - If the E-DCH Maximum Bitrate IE is included, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]**

- **FDD - If the E-DCH Processing Overload Level IE is included, then if the Node B could not decode the E-DPCCH/E-DPDCH for the last consecutive number of TTIs, indicated in the E-DCH Processing
Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]

- [FDD - If the Additional E-DCH serving RL is in this Node B, the Node B may choose to change the E-DCH HARQ process allocation for 2ms TTI for scheduled transmission. In this case the Node B shall allocate resources according to the new/changed configuration and include the new/changed configuration in the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE in the Additional Modified E-DCH FDD Information Response IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[FDD – Additional E-DCH Removal]

[FDD - If the Additional E-DCH Cell Information RL Reconf Req IE is present in the RADIO LINK RECONFIGURATION REQUEST message and the choice of Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency is “Removal”, then the additional E-DCH on the secondary uplink frequency shall be removed.]

[TDD - Intra-Node B Serving E-DCH Radio Link Change:]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH Serving RL IE, this indicates the new Serving E-DCH Radio Link.]

- [TDD - In the new configuration the Node B shall de-allocate the E-DCH resources of the old Serving E-DCH Radio Link and allocate the E-DCH resources for the new Serving E-DCH Radio Link.]


- [TDD - If the TNL QoS IE is included for a MAC-d flow and if ALCAP is not used, the TNL QoS IE may be used by the Node B to determine the transport bearer characteristics to apply in the uplink between the Node B and the CRNC for the related MAC-d flow.]

[TDD - E-PUCH Handling]:

[3.84Mcps TDD and 7.68Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an E-PUCH Information IE, the Node B shall apply the parameters to the new configuration.]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an E-PUCH Information LCR IE, the Node B shall apply the parameters to the new configuration.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an E-TFCS Information TDD IE, the Node B shall apply the beta parameters to the new configuration.]

[1.28 Mcps TDD - The Node B shall configure the HS-SCCH TPC step size to the same value as the E-AGCH TPC step size IE configured in E-PUCH Information LCR IE in the E-DCH Information 1.28Mcps IE.]

[3.84Mcps TDD - E-DCH Setup]:

[3.84Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: E-DCH Serving RL IE, E-PUCH Information IE, E-TFCS Information TDD IE, E-DCH MAC-d Flows to Add IE, E-DCH TDD Information IE and E-DCH Non-scheduled Grant Information TDD IE if there are to be non-scheduled grants.]

[1.28Mcps TDD - E-DCH Setup]:

[1.28Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: E-DCH Serving RL IE, E-PUCH Information LCR IE, E-TFCS Information TDD IE, E-DCH MAC-d Flows to Add IE, E-DCH TDD Information LCR IE and E-DCH Non-scheduled Grant Information LCR TDD IE if there are to be non-scheduled grants.]

[7.68Mcps TDD - E-DCH Setup]:

[7.68Mcps TDD - the radio link may be reconfigured to support E-DCH by including the appropriate E-DCH information elements: E-DCH Serving RL IE, E-PUCH Information IE, E-TFCS Information TDD IE, E-DCH MAC-d
**Flows to Add IE, E-DCH TDD Information 7.68Mcps IE and E-DCH Non-scheduled Grant Information 7.68Mcps TDD IE if there are to be non-scheduled grants.**

**[TDD - E-DCH MAC-d Flow Addition/Deletion: ]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any E-DCH MAC-d Flows To Add or E-DCH MAC-d Flows To Delete IEs, then the Node B shall use this information to add/delete the indicated E-DCH MAC-d flows. When an E-DCH MAC-d flow is deleted, all its associated configuration data shall also be removed.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Maximum MAC-d PDU Size Extended IE for a E-DCH Logical Channel in the E-DCH MAC-d Flows Information IE in the E-DCH MAC-d Flows To Add IE, then the Node B shall ignore the MAC-d PDU Size IE in the MAC-d PDU Size List IE and use Maximum MAC-d PDU Size Extended IE to optimise capacity allocation for the related E-DCH Logical Channel.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an E-DCH MAC-d Flows To Delete IE requesting the deletion of all remaining E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the E-DCH configuration from the Node B Communication Context and release the E-DCH resources.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes an E-DCH MAC-d Flows To Delete IE requesting the deletion of all remaining non-scheduled E-DCH MAC-d flows for the Node B Communication Context, then the Node B shall delete the non-scheduled E-DCH configuration from the Node B Communication Context and release the non-scheduled E-DCH resources [1.28 Mcps TDD - and the related Signature Sequence of the Non-scheduled E-HICH].]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH MAC-d Flows To Add IE, then if the RADIO LINK RECONFIGURATION REQUEST message includes the MAC-es Guaranteed Bit Rate IE in the E-DCH MAC-d Flows To Add IE, the Node B shall use this information to optimise MAC-e scheduling decisions.]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the MAC-es Maximum Bit Rate LCR IE in the E-DCH Logical Channel Information IE in the E-DCH MAC-d Flows To Add IE, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

**[3.84Mcps TDD - E-DCH Non-scheduled allocations:]**

[3.84Mcps TDD - If the E-DCH Non-scheduled Grant Information TDD IE is present in the RADIO LINK RECONFIGURATION REQUEST message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[1.28Mcps TDD - E-DCH Non-scheduled allocations:]

[1.28Mcps TDD - If the E-DCH Non-scheduled Grant Information LCR TDD IE is present in the RADIO LINK RECONFIGURATION REQUEST message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

[7.68Mcps TDD - E-DCH Non-scheduled allocations:]

[7.68Mcps TDD - If the E-DCH Non-scheduled Grant Information 7.68Mcps TDD IE is present in the RADIO LINK RECONFIGURATION REQUEST message the Node B shall assume that non-scheduled transmissions will take place according to the parameters in the information element.]

**[TDD - E-DCH Modification:]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the [3.84Mcps TDD - E-DCH TDD Information IE] [1.28Mcps TDD - E-DCH TDD Information LCR IE] [7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE], then:]

- [3.84Mcps TDD - If the E-DCH TDD Information IE includes the E-DCH TDD Maximum Bitrate IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [1.28Mcps TDD - If the E-DCH TDD Information LCR IE includes the E-DCH Physical Layer Category LCR IE or Extended E-DCH Physical Layer Category LCR IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]
- [7.68Mcps TDD - If the E-DCH TDD Information 7.68Mcps IE includes the E-DCH TDD Maximum Bitrate 7.68Mcps IE for an E-DCH, the Node B shall use this information for the related resource allocation operation, and when applicable, for E-DCH scheduling.]

- [TDD - If the [3.84Mcps TDD - E-DCH TDD Information IE] [1.28Mcps TDD - E-DCH TDD Information LCR IE] includes the E-DCH Processing Overload Level IE, then if the Node B could not decode the E-PUCCH for the last consecutive number of TTI's, indicated in the E-DCH Processing Overload Level IE, because of processing issue, the Node B shall notify the RNC by initiating the Radio Link Failure procedure.]

- [TDD - If the [3.84Mcps TDD - E-DCH TDD Information IE] [1.28Mcps TDD - E-DCH TDD Information LCR IE] includes the E-DCH Power Offset for Scheduling Info IE, then the Node B shall use this value as a power offset for the transmission of scheduling information without any MAC-d PDUs.]

- [1.28Mcps TDD - If the E-DCH TDD Information LCR IE includes the Maximum Number of Retransmission for Scheduling Info LCR IE and the E-DCH Retransmission timer for Scheduling Info LCR IE, then the Node B shall use these parameters for the transmission of scheduling information without any MAC-d PDUs.]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH TDD Information To Modify IE, then:]

- [TDD - If the E-DCH TDD Information To Modify IE contains a E-DCH MAC-d Flow Specific Information IE which includes the Allocation/Retention Priority IE, the Node B shall apply the new Allocation/Retention Priority to this E-DCH in the new configuration according to Annex A.]

- [TDD - If the E-DCH TDD Information To Modify IE message includes the Maximum Number of Retransmissions for E-DCH IE for an E-DCH MAC-d flow then the Node B shall use this information to report if the maximum number of retransmissions has been exceeded.]

- [1.28Mcps TDD - If the E-DCH TDD Information To Modify IE message includes the E-DCH MAC-d Flow Retransmission Timer IE for an E-DCH MAC-d flow then the Node B shall use this information to set the retransmissions timer.]

- [TDD - If the E-DCH TDD Information To Modify IE message includes the E-DCH HARQ Power Offset TDD IE for an E-DCH MAC-d flow the Node B shall use this new power offset value.]

- [TDD - If the E-DCH TDD Information To Modify IE includes the E-DCH MAC-d Flow Multiplexing List IE for an E-DCH MAC-d flow the Node B shall use this information for the related resource allocation operation.]
- [TDD - If the E-DCH Logical Channel To Modify IE includes the Maximum MAC-d PDU Size Extended IE, the Node B shall apply the value in the new configuration.]

- [TDD - If the E-DCH TDD Information To Modify IE includes the MAC-e Reset Indicator IE in the E-DCH TDD Information To Modify IE, then the Node B shall use this value to determine whether MAC-e (or MAC-i) Reset is performed in the UE for sending the HARQ Failure Indication.]

[1.28Mcps TDD - Power Control GAP:]

[1.28Mcps TDD - If the Power Control GAP IE is included in the RADIO LINK RECONFIGURATION REQUEST message, the Node B may use the value for the power control for HS-SCCH and HS-SICH according to the [21].]

[1.28Mcps TDD - E-UTRAN Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Idle Interval Information IE, if supported, the Node B shall use the value for E-UTRAN Inter-RAT measurement according to the [18].]

[1.28Mcps TDD - HS-DSCH-RNTI for FACH:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH-RNTI for FACH IE, if supported, the Node B shall store this information and include the E-RNTI for FACH IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

[1.28Mcps TDD – Inter-frequency/ Inter-RAT measurement:]

[1.28Mcps TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Measurement occasion pattern sequence parameters IE in the DCH Measurement Occasion Information IE, if HS-SCCH(s), E-AGCH(s) or HS-PDSCH is/are configured on TS0, the Node B shall store the information about the Measurement occasion pattern sequences and use the value(s) to calculate the Inter-frequency/Inter-RAT measurement occasion according to [18].]

General

If the RADIO LINK RECONFIGURATION REQUEST message includes the Transport Layer Address IE and Binding ID IE(s) in the HS-DSCH Information IE, HS-DSCH Information To Modify Unsynchronised IE, HS-DSCH MAC-d Flows To Add IE, [FDD -RL Specific E-DCH Information IE] [TDD - E-DCH MAC-d Flows to Add IE, E-DCH TDD Information To Modify IE] or in the RL Specific DCH Information IE, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for any Transport Channel [FDD - for which the Transport Bearer Not Requested Indicator IE is not included] or MAC-d flow [FDD - for which the Transport Bearer Not Requested Indicator IE is not included] being added or any Transport Channel [FDD - for which the Transport Bearer Not Requested Indicator IE was not included] or MAC-d flow [FDD - for which the Transport Bearer Not Requested Indicator IE was not included] being modified for which a new transport bearer was requested with the Transport Bearer Request Indicator IE.

If the requested modifications are allowed by the Node B, the Node B has successfully allocated the required resources, and changed to the new configuration, it shall respond to the CRNC with the RADIO LINK RECONFIGURATION RESPONSE message.

The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address IE and the Binding ID IE for any Transport Channel [FDD - for which the Transport Bearer Not Requested Indicator IE is not included], or MAC-d flow [FDD - for which the Transport Bearer Not Requested Indicator IE is not included], being added or any Transport Channel [FDD - for which the Transport Bearer Not Requested Indicator IE was not included] or MAC-d flow [FDD - for which the Transport Bearer Not Requested Indicator IE was not included] being modified for which a new transport bearer was requested with the Transport Bearer Request Indicator IE. The detailed frame protocol handling during transport bearer replacement is described in [16], subclause 5.10.1 and in [24], subclause 5.8.3.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Transport Bearer Not Requested Indicator IE set to "Transport Bearer shall not be Established" for a DCH or an E-DCH MAC-d flow being added, then the Node B shall not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow and shall include the Transport Bearer Not Setup Indicator IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION RESPONSE message.]
[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Transport Bearer Not Requested Indicator IE set to "Transport Bearer may not be Established" for a DCH or an E-DCH MAC-d flow being added and:]

- [FDD - if the Node B establishes a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Binding ID IE and Transport Layer Address IE for establishment of a transport bearer for the DCH or E-DCH MAC-d flow being established.]

- [FDD - if the Node B does not establish a transport bearer for the concerned DCH or E-DCH MAC-d flow, the Node B shall include the Transport Bearer Not Setup Indicator IE for the corresponding DCH or E-DCH MAC-d flow in the RADIO LINK RECONFIGURATION RESPONSE message.]

In the case of a set of co-ordinated DCHs requiring a new transport bearer on the Iub interface, the Transport Layer Address IE and the Binding ID IE in the DCH Information Response IE shall be included only for one of the DCH [FDD - for which the Transport Bearer Not Requested Indicator IE is not included] in the set of coordinated DCHs.

In the case of a Radio Link being combined with another Radio Link within the Node B, the Transport Layer Address IE and the Binding ID IE [FDD - for which the Transport Bearer Not Requested Indicator IE is not included] in the DCH Information Response IE shall be included only for one of the combined Radio Links.

[FDD - In the case of an E-DCH RL being combined with another E-DCH RL within the Node B, the E-DCH FDD Information Response IE shall be included only for one of the combined E-DCH RLs.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Additional E-DCH Cell Information RL Reconf Req IE, then:]

- [FDD - if the Multicell E-DCH Transport Bearer Mode IE for an Additional E-DCH to be Setup is set to "Separate Iub Transport Bearer Mode" the Node B shall use this mode in the new configuration and apply separate transport bearers for the MAC-d flows.]

- [FDD - if the Multicell E-DCH Transport Bearer Mode IE for an Additional E-DCH to be Setup is set to "UL Flow Multiplexing Mode" the Node B shall use this mode in the new configuration and multiplex MAC-d flows on the transport bearers.]

- [FDD - if Separate Iub Transport Bearer Mode is used in the new configuration, then:]

  - [FDD - the Node B shall follow the rules defined in this procedure for single carrier mode of operation for establishment of the transport bearer for a MAC-d flow, use the Transport Bearer Not Requested Indicator IE in the E-DCH MAC-d Flow Specific Information IE in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE and/or the Transport Bearer Request Indicator IE in the E-DCH FDD Information To Modify IE received for the corresponding Radio Link(s) of the Primary Uplink Frequency to determine the transport bearer configuration in the new configuration for the radio links of the Secondary Uplink Frequency.]

  - [FDD - If the Transport Layer Address IE and Binding ID IE is included for an E-DCH MAC-d flow in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH FDD Information IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE or in the Additional E-DCH MAC-d Flows Specific Information IE in the Additional E-DCH FDD Information To Modify IE in the Additional E-DCH Configuration Change Information IE in the Additional E-DCH Cell Information Configuration Change IE, then the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the concerned E-DCH MAC-d flow. If the Node B establishes a transport bearer for the concerned E-DCH MAC-d flow the Node B shall, for establishment of the transport bearer, include in the RADIO LINK RECONFIGURATION RESPONSE message the Binding ID IE and Transport Layer Address IE in the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional E-DCH FDD Information Response IE and/or and/or include the Binding ID IE and Transport Layer Address IE for the E-DCH MAC-d flow has been modified in the Additional E-DCH MAC-d Flow Specific Information Response IE in the Additional Modified E-DCH FDD Information Response IE.]

In the case of a signalling bearer re-arrangement, the new Communication Control Port shall be used once the Node B has sent the RADIO LINK RECONFIGURATION RESPONSE message via the old Communication Control Port.
8.3.5.3 Unsuccessful Operation

![Diagram](ETSI TS 125 433 V9.5.0 (2011-03))

Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the Node B cannot allocate the necessary resources for all the new DCHs of one set of co-ordinated DCHs requested to be set-up, it shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed.

If the requested Unsynchronised Radio Link Reconfiguration procedure fails for one or more Radio Link(s), the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

Typical cause values are as follows:

**Radio Network Layer Cause**
- CM not supported
- [FDD - Continuous Packet Connectivity DTX-DRX operation not available]
- [FDD - Continuous Packet Connectivity UE DTX Cycle not available]
- [FDD - MIMO not available]
- E-DCH MAC-d PDU Size Format not available
- [FDD - SixtyfourQAM DL and MIMO Combined not available]
- [FDD - Multi Cell operation not available.]
- [1.28Mcps TDD - MIMO not available]
- [1.28Mcps TDD - SixtyfourQAM DL and MIMO Combined not available]
- [FDD – Single Stream MIMO not available]
- [FDD - Multi Cell operation with MIMO not available]
- [FDD - Multi Cell operation with Single Stream MIMO not available]
- [FDD - Multi Cell E-DCH operation not available]

**Transport Layer Cause**
- Transport Resources Unavailable

**Miscellaneous Cause**
- O&M Intervention
- Control processing overload
- HW failure

8.3.5.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of co-ordinated DCHs is requested to be deleted, the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.
If more than one DCH of a set of co-ordinated DCHs has the **QE-Selector** IE set to "selected" [TDD - or no DCH of a set of co-ordinated DCHs has the **QE-Selector** IE set to "selected"], the Node B shall regard the Unsynchronised Radio Link Reconfiguration Preparation procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes a **DCHs To Modify** IE or **DCHs To Add** IE with multiple **DCH Specific Info** IEs, and if the DCHs in the **DCHs To Modify** IE or **DCHs To Add** IE do not have the same **Transmission Time Interval** IE in the **Semi-Static Transport Format Information** IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the **RL Information** IE includes the **DL Reference Power** IEs, but the power balancing is not active in the indicated RL(s), the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the Node B shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s) but the **RL Information** IE includes more than one **DL Reference Power** IEs, the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the Node B shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

If the RADIO LINK RECONFIGURATION REQUEST message contains the **Transport Layer Address** IE or the **Binding ID** IE when establishing a transport bearer for any Transport Channel or HS-DSCH MAC-d flow being added or any Transport Channel or HS-DSCH MAC-d flow being modified for which a new transport bearer was requested with the **Transport Bearer Request Indicator** IE, and not both are present for a transport bearer intended to be established, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the **HS-DSCH Information To Modify** IE, **HS-DSCH MAC-d Flows To Add** IE or **HS-DSCH MAC-d Flows To Delete** IE in addition to the **HS-DSCH Information** IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message contains any of the **HS-DSCH Information To Modify** IE, **HS-DSCH MAC-d Flows To Add** IE, **HS-DSCH MAC-d Flows To Delete** IE or **HS-PDSCH RL-ID** IE and the Serving HS-DSCH Radio Link is not in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the **HS-DSCH Information** IE and does not include the **HS-PDSCH RL-ID** IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the RADIO LINK RECONFIGURATION REQUEST message includes the **HS-PDSCH RL-ID** IE indicating a Radio Link not existing in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Indexed MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Flexible MAC-d PDU Size" for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use
MAC-d PDU Size Index, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Fixed MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use "Flexible MAC-d PDU Size" for an E-DCH and there exist a Logical Channel of the MAC-d flows of the E-DCH that is configured to use MAC-d PDU Size List, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the HS-DSCH Information IE and if the Measurement Power Offset IE is not present, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION REQUEST message includes HS-DSCH Information IE and the HS-DSCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the concerned Node B Communication Context is configured to use F-DPCH in the downlink and if the RL Information IE contains the DL Code Information IE, then the Node B shall consider the Unsynchronised Radio Link Reconfiguration procedure as having failed and it shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.]

[FDD - If the E-DCH FDD Information IE is present in the RADIO LINK RECONFIGURATION REQUEST message, but the E-DPCH Information IE is not present, or if any of the Maximum Set of E-DPDCHs IE, Puncture Limit IE, E-TFCS Information IE, E-TTI IE, E-DPCCH Power Offset IE, E-RGCH 2-Index-Step Threshold IE, E-RGCH 3-Index-Step Threshold IE, HARQ Info for E-DCH IE or HS-DSCH Configured Indicator IE are not present in the E-DPCH Information IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If any the HS-DSCH Configured Indicator IE, of the Maximum Set of E-DPDCHs IE, Puncture Limit IE or E-TTI IE are present in the E-DPCH Information IE and the E-DCH FDD Information IE is not present in the RADIO LINK RECONFIGURATION REQUEST message, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes one of the Not Used IEs, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH RL Indication IE set to "E-DCH", but no E-DCH FDD Information IE, and the Node B Communication Context is not configured for E-DCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH FDD Information IE but no E-DCH RL Indication IE set to "E-DCH", then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION REQUEST message contains the HS-PDSCH RL ID IE and/or the Serving E-DCH RL IE and if both HS-DSCH and E-DCH are configured in the new configuration but the Serving HS-DSCH Radio Link and the Serving E-DCH Radio Link are not in the same cell then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the HS-PDSCH RL ID IE and the E-DPCH Information IE which includes the HS-DSCH Configured Indicator IE set as 'HS-DSCH not configured' then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains any of the E-DCH FDD Information To Modify IE, E-DCH MAC-d Flows To Add IE or E-DCH MAC-d Flows To Delete IE in addition to the E-DCH FDD Information IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains any of the E-DCH FDD Information To Modify IE, E-DCH MAC-d Flows To Add IE, E-DCH MAC-d Flows To Delete IE and the Node B Communication
Context is not configured for E-DCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the E-DCH FDD Information To Modify IE deleting the last remaining E-DCH Logical Channel of an E-DCH MAC-d Flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes E-DCH FDD Information IE and the E-DCH is already configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[TDD - if the radio link was not previously configured to support E-DCH, then if the RADIO LINK RECONFIGURATION REQUEST message includes one of the following E-DCH information elements then it shall contain all of them otherwise the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.: E-DCH Serving RL IE, [3.84Mcps TDD and 7.68Mcps - E-PUCH Information IE, E-TFCS Information TDD IE], [1.28Mcps TDD - E-PUCH Information LCR IE, E-TFCS Information TDD IE], E-DCH MAC-d Flows to Add IE, and [3.84Mcps TDD - E-DCH TDD Information IE] [1.28Mcps TDD - E-DCH TDD Information LCR IE] [7.68Mcps TDD - E-DCH TDD Information 7.68Mcps IE].]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Continuous Packet Connectivity DTX-DRX Information To Modify IE in addition to the Continuous Packet Connectivity DTX-DRX Information To Modify IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Continuous Packet Connectivity HS-SCCH less Deactivate Indicator IE in addition to the Continuous Packet Connectivity HS-SCCH less Information IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Continuous Packet Connectivity HS-SCCH less Deactivate Indicator IE while the Continuous Packet Connectivity HS-SCCH less configuration isn’t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Continuous Packet Connectivity DTX-DRX Information To Modify IE while the Continuous Packet Connectivity DTX-DRX configuration isn’t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the DRX Information To Modify IE in Continuous Packet Connectivity DTX-DRX Information To Modify IE while the Continuous Packet Connectivity DRX configuration isn’t configured in the Node B Communication Context, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If the DCHs to Modify IE contains a DCH Specific Info IE which includes the Unidirectional DCH Indicator IE set to "Uplink DCH only" but no Transport Format Set IE for the uplink for this DCH and the Node B had ignored the configuration of Transport Format Set for uplink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If the DCHs to Modify IE contains a DCH Specific Info IE which includes the Unidirectional DCH Indicator IE set to "Downlink DCH only" but no Transport Format Set IE for the downlink for this DCH and the Node B had ignored the configuration of Transport Format Set for downlink, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the Transport Bearer Not Requested Indicator IE for a DCH but does not contain the corresponding DCH ID IE and the Unidirectional DCH indicator IE set to "Uplink DCH only" for the DCH in DCH Information To Add IE, the Node B shall reject the procedure using the the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply UL DPCCH Slot Format 0 or 2 and execute Continuous Packet Connectivity DTX-DRX operation, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply MIMO, allowed to apply 64 QAM, establish the secondary serving HS-DSCH Radio Link, or apply Single Stream MIMO in the new configuration but is
not configured to use flexible MAC-d PDU Size, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Transport Bearer Not Requested Indicator IE for a DCH in the RL Specific DCH Information IE but does not include the DCH ID IE for the DCH in the DCHs to Add IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message contains the Continuous Packet Connectivity DTX-DRX Information IE but the concerned Node B Communication Context is not previously configured to use F-DPCH, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to have the Serving E-DCH Radio Link but there is at least one E-DCH MAC-d flow which the Transport Bearer is not configured in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the Transport Bearer Not Requested Indicator IE for a DCH for a specific RL and the specific RL is combined with existing RL which the transport bearer is established for the DCH in the Node B, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If ALCAP is not used, if the concerned Node B Communication Context is configured to establish a DCH, an E-DCH MAC-d flow and/or an HS-DSCH MAC-d flow but the RADIO LINK RECONFIGURATION REQUEST message does not include the Transport Layer Address IE and the Binding ID IE for the DCH, the E-DCH MAC-d flow and/or HS-DSCH MAC-d flow, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[1.28 Mcps TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the HS-DSCH Semi-Persistent scheduling Information to Modify LCR IE in addition to the HS-DSCH Semi-Persistent scheduling Information LCR IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

If, in the new configuration, there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use 'Flexible RLC PDU Size' for an HS-DSCH but is not configured to use Maximum MAC-d PDU Size Extended, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

If, in the new configuration, the concerned Node B Communication Context is configured to use MAC-d PDU Size Index for an HS-DSCH but there exist a priority queue of the MAC-d flows of the HS-DSCH that is configured to use 'Flexible RLC PDU Size', the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the HS-DSCH FDD Secondary Serving Information IE but does not contain the C-ID IE in the Additional HS Cell Information RL Reconf Prep IE or the message includes the C-ID IE but does not contain the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Reconf Prep IE, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains a MIMO Activation Indicator IE and a Single Stream MIMO Activation Indicator IE in the HS-DSCH FDD Information IE or in the HS-DSCH FDD Secondary Serving Information IE in the Additional HS Cell Information RL Reconf Req IE, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the concerned Node B Communication Context is configured to apply MIMO and Single Stream MIMO for the HS-DSCH Radio Link or the Secondary Serving Radio link, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the Additional E-DCH Cell Information RL Reconf Req IE and if the E-DPCH Information IE is not present or the E-DPCH Information was not
configured in the Node B Communication Context, then the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the Additional E-DCH Cell Information RL Reconf Req IE and there exist a logical channel for which the Maximum MAC-d PDU Size Extended IE in the E-DCH MAC-d Flows Information IE in the E-DCH FDD Information IE is not present, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message contains the Additional E-DCH RL Specific Information To Setup IE in the Additional E-DCH FDD Setup Information IE in the Additional E-DCH Cell Information Setup IE in the Additional E-DCH Cell Information RL Reconf Req IE and the C-ID IE is not included but the Radio Link indicated by the E-DCH Additional RL ID IE is not configured in the current Node B Communication Context as a Secondary Serving HS-DSCH radio link without any configured Additional E-DCH, the Node B shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.]

8.3.6 Radio Link Deletion

8.3.6.1 General

The Radio Link Deletion procedure is used to release the resources in a Node B for one or more established radio links towards a UE.

The Radio Link Deletion procedure may be initiated by the CRNC at any time when the Node B Communication Context exists.

8.3.6.2 Successful Operation

The procedure is initiated with a RADIO LINK DELETION REQUEST message sent from the CRNC to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

Upon receipt of this message, the Node B shall delete the radio link(s) identified by the RL ID IE, Node B Communication Context ID IE and CRNC Communication Context ID IE and release all associated resources and respond to the CRNC with a RADIO LINK DELETION RESPONSE message.

[FDD - After deletion of the RL(s), the UL out-of-sync algorithm defined in ref. [10] shall for each of the remaining RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE that are configured in the cells supporting the radio links of the RL Set and the UL in-sync algorithm defined in ref. [10] shall for each of the remaining RL Set(s) use the minimum value of the parameters N_INSYNC_IND that are configured in the cells supporting the radio links of the RL Set.]

[FDD – If the RL indicated by the RL ID IE in the RADIO LINK DELETION REQUEST message is the serving HS-DSCH Radio link and a related secondary serving HS-DSCH Radio Link exists in the Node B, the Node B shall delete the secondary serving HS-DSCH Radio Link.]

[FDD – If the RL indicated by the RL ID IE in the RADIO LINK DELETION REQUEST message is the secondary serving HS-DSCH Radio link, the Node B shall delete the secondary serving HS-DSCH Radio Link.]

8.3.6.3 Unsuccessful Operation


8.3.6.4 Abnormal Conditions

If the RL indicated by the RL ID IE, Node B Communication Context ID IE and CRNC Communication Context ID IE does not exist, the Node B shall respond with the RADIO LINK DELETION RESPONSE message and use the CRNC Communication Context ID IE received in the RADIO LINK DELETION REQUEST message.

8.3.7 Downlink Power Control [FDD]

8.3.7.1 General

The purpose of this procedure is to balance the DL transmission powers of one or more Radio Links used for the related UE-UTRAN connection within the Node B. The Downlink Power Control procedure may be initiated by the CRNC at any time when the Node B Communication Context exists, irrespective of other ongoing CRNC initiated dedicated NBAP procedures towards this Node B Communication Context. The only exception occurs when the CRNC has requested the deletion of the last RL via this Node B, in which case the Downlink Power Control procedure shall no longer be initiated.

8.3.7.2 Successful Operation

The procedure is initiated by the CRNC sending a DL POWER CONTROL REQUEST message to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

The Power Adjustment Type IE defines the characteristic of the power adjustment.

If the value of the Power Adjustment Type IE is "Common", the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "Common". As long as the Power Balancing Adjustment Type of the Node B Communication Context is set to "Common", the Node B shall perform the power adjustment (see below) for all existing and future radio links associated with the context identified by the Node B Communication Context ID IE and use a common DL reference power level.

If the value of the Power Adjustment Type IE is "Individual", the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "Individual". The Node B shall perform the power adjustment (see below) for all radio links addressed in the message using the given DL Reference Powers per RL. If the Power Balancing Adjustment Type of the Node B Communication Context was set to "Common" before this message was received, power balancing on all radio links not addressed by the DL POWER CONTROL REQUEST message shall remain to be executed in accordance with the existing power balancing parameters which are now considered RL individual parameters. Power balancing will not be started on future radio links without a specific request.

If the value of the Power Adjustment Type IE is "None", the Power Balancing Adjustment Type of the Node B Communication Context shall be set to "None" and the Node B shall suspend on going power adjustments for all radio links for the Node B Communication Context.

If the Inner Loop DL PC Status IE is present and set to "Active", the Node B shall activate inner loop DL power control for all radio links for the Node B Communication Context. If the Inner Loop DL PC Status IE is present and set to "Inactive", the Node B shall deactivate inner loop DL power control for all radio links for the Node B Communication Context according to ref. [10].

Power Adjustment

The power balancing adjustment shall be superimposed on the inner loop power control adjustment (see ref. [10]) if activated. The power balancing adjustment shall be such that:

$$\sum P_{bal} = (1 - r)(P_{ref} + P_{P-CPICH} - P_{init}) \text{ with an accuracy of } \pm 0.5 \text{ dB}$$
where the sum is performed over an adjustment period corresponding to a number of frames equal to the value of the Adjustment Period IE, $P_{\text{old}}$ is the value of the DL Reference Power IE, $P_{\text{PCPICH}}$ is the power used on the primary CPICH, $P_{\text{p}}$ is the code power of the last slot of the previous adjustment period and $r$ is given by the Adjustment Ratio IE. If the last slot of the previous adjustment period is within a transmission gap due to compressed mode, $P_{\text{old}}$ shall be set to the same value as the code power of the slot just before the transmission gap.

The adjustment within one adjustment period shall in any case be performed with the constraints given by the Max Adjustment Step IE and the DL TX power range set by the CRNC.

The power adjustments shall be started at the first slot of a frame with CFN modulo the value of Adjustment Period IE equal to 0 and shall be repeated for every adjustment period and shall be restarted at the first slot of a frame with CFN=0, until a new DL POWER CONTROL REQUEST message is received or the RL is deleted.

8.3.7.3 Abnormal Conditions

8.3.8 Dedicated Measurement Initiation

8.3.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on dedicated resources in a Node B.

The Dedicated Measurement Initiation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1 except when the Node B Communication Context ID IE in the DEDICATED MEASUREMENT INITIATION REQUEST message is set to the reserved value ”All NBCC”.

If the Node B Communication Context ID IE in the DEDICATED MEASUREMENT INITIATION REQUEST message is set to the reserved value ”All NBCC”, the Dedicated Measurement Initiation procedure may be initiated by the CRNC at any time when the Node B Communication Context exists.

8.3.8.2 Successful Operation

![Diagram](image)

Figure 38: Dedicated Measurement Initiation procedure, Successful Operation

The procedure is initiated with a DEDICATED MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Communication Control Port assigned to the Node B Communication Context.

Upon reception, the Node B shall initiate the requested measurement according to the parameters given in the DEDICATED MEASUREMENT INITIATION REQUEST message. Unless specified below the meaning of the parameters are given in other specifications.

If the Node B Communication Context ID IE equals the reserved value ”All NBCC”, this measurement request shall apply for all current and future Node B Communication Contexts controlled via the Communication Control Port on which the DEDICATED MEASUREMENT INITIATION REQUEST message was received. Otherwise, this measurement request shall apply for the requested Node B Communication Context ID only.

If the Node B Communication Context ID IE equals the reserved value ”All NBCC”, the measurement request shall be treated as a single measurement, despite applying to multiple contexts. This means that it may only be terminated or failed on ”All NBCC”.

ETS1
If the Node B Communication Context ID IE equals the reserved value "All NBCC", the measurement shall be initiated only for those Node B Communication Contexts handling a mode (FDD, 3.84Mcps TDD, 7.68Mcps TDD or 1.28Mcps TDD) for which the concerned measurement is specified in [4] and [5]. The initiation of the measurement for a Node B Communication Context may be delayed until the Reconfiguration CFN has elapsed if either a Prepared Reconfiguration exists or a Prepared Reconfiguration no longer exists but the Reconfiguration CFN has not yet elapsed.

If the Dedicated Measurement Object Type is indicated as being "RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all indicated Radio Links.

[FDD - If the Dedicated Measurement Object Type is indicated as being "RLS" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all indicated Radio Link Sets.]

[FDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all current and future Radio Links within the Node B Communication Context.]

[TDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for one existing DPCH per CCTrCH in each used time slot of current and future Radio Links within the Node B Communication Context, provided the measurement type is applicable to the respective DPCH.]

[FDD - If the Dedicated Measurement Object Type is indicated as being "ALL RLS" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for all existing and future Radio Link Sets within the Node B Communication Context.]

[TDD - If the Dedicated Measurement Object Type is indicated as being "ALL RL" in the DEDICATED MEASUREMENT INITIATION REQUEST message, measurement results shall be reported for one existing physical channel per CCTrCH in each used time slot of the Radio Link, provided the measurement type is applicable to this physical channel.]

[TDD - If the PUSCH Information IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually.]

[TDD - If the HS-SICH Information IE is provided within the RL Information, the measurement request shall apply for the requested physical channel individually.]

[TDD - If the Dedicated Measurement Type IE is set to "HS-SICH reception quality", the Node B shall initiate measurements of the failed, missed and total HS-SICH transmissions on all of the HS-SICH assigned to this Node B Communication Context. If either the failed or missed HS-SICH transmission satisfies the requested report characteristics, the Node B shall report the result of both failed and missed transmission measurements along with the total number of transmissions.]

If the CFN Reporting Indicator IE is set to "FN Reporting Required", the CFN IE shall be included in the DEDICATED MEASUREMENT REPORT message or in the DEDICATED MEASUREMENT INITIATION RESPONSE message, the latter only in the case the Report Characteristics IE is set to "On Demand". The reported CFN shall be the CFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [25].

[FDD - If the Number Of Reported Cell Portions IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message, the value shall be used to determine how many Cell Portion ID IEs and SIR Value IEs shall be included in Best Cell Portions IE in the DEDICATED MEASUREMENT REPORT message or in the DEDICATED MEASUREMENT INITIATION RESPONSE message.]

[1.28Mcps TDD - If the Number Of Reported Cell Portions LCR IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message, the value shall be used to determine how many Cell Portion LCR ID IEs and RSCP Value IEs shall be included in Best Cell Portions LCR IE in the DEDICATED MEASUREMENT REPORT message or in the DEDICATED MEASUREMENT INITIATION RESPONSE message.]

Report characteristics
The Report Characteristics IE indicates how the reporting of the measurement shall be performed. See also Annex B.

If the Report Characteristics IE is set to "On Demand" and if the CFN IE is not provided, the Node B shall return the result of the measurement immediately. If the CFN IE is provided, it indicates the frame for which the measurement
value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the Report Characteristics IE is set to "Periodic", the Node B shall periodically initiate the Dedicated Measurement Report procedure for this measurement, with the requested report frequency. If the CFN IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the Report Characteristics IE is set to "Event A", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the Measurement Hysteresis Time IE is not included, the Node B shall use the value zero for the hysteresis time.

If the Report Characteristics IE is set to "Event B", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the Measurement Hysteresis Time IE is not included, the Node B shall use the value zero for the hysteresis time.

If the Report Characteristics IE is set to "Event C", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the Measurement Change Time IE has elapsed since the previous event reporting.

If the Report Characteristics IE is set to "Event D", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the Measurement Change Time IE has elapsed since the previous event reporting.

If the Report Characteristics IE is set to "Event E", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the Report Periodicity IE is provided, the Node B shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the Measurement Threshold 2 IE is not present, the Node B shall use the value of the Measurement Threshold 1 IE instead. If the Measurement Hysteresis Time IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the Report Characteristics IE is set to "Event F", the Node B shall initiate the Dedicated Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the Report Periodicity IE is provided, the Node B shall also initiate the Dedicated Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Dedicated Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the Measurement Threshold 2 IE is not present, the Node B shall use the value of the Measurement Threshold 1 IE instead. If the Measurement Hysteresis Time IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B.

If the Report Characteristics IE is set to "On Modification" and if the SFN IE is not provided, the Node B shall report the result of the requested measurement immediately. If the SFN IE is provided, it indicates the frame for which the measurement value shall be provided. Then, the Node B shall initiate the Dedicated Measurement Reporting procedure in accordance to the following conditions:

1. If the Dedicated Measurement Type IE is set to "Best Cell Portions LCR":
   - The Node B shall initiate the Dedicated Measurement Reporting procedure when the Dedicated Measurement Value "Best Cell Portions LCR" changes.

If the Report Characteristics IE is not set to "On Demand", the Node B is required to perform reporting for a dedicated measurement object, in accordance with the conditions provided in the DEDICATED MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no dedicated measurement object for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the Node B shall initiate the Dedicated Measurement Reporting procedure immediately, and then continue with the measurements as specified in the DEDICATED MEASUREMENT INITIATION REQUEST message.
Higher layer filtering
The Measurement Filter Coefficient IE indicates how filtering of the measurement values shall be performed before measurement event evaluation and reporting.

The averaging shall be performed according to the following formula.

\[ F_n = (1 - a) \cdot F_{n-1} + a \cdot M_n \]

The variables in the formula are defined as follows:

- \( F_n \) is the updated filtered measurement result.
- \( F_{n-1} \) is the old filtered measurement result.
- \( M_n \) is the latest received measurement result from physical layer measurements, the unit used for \( M_n \) is the same unit as the reported unit in the DEDICATED MEASUREMENT INITIATION RESPONSE, DEDICATED MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for \( F_n \)).
- \( a = \frac{1}{2^{k/2}} \), where \( k \) is the parameter received in the Measurement Filter Coefficient IE. If the Measurement Filter Coefficient IE is not present, \( a \) shall be set to 1 (no filtering).

In order to initialise the averaging filter, \( F_0 \) is set to \( M_1 \) when the first measurement result from the physical layer measurement is received.

Measurement Recovery Behavior:
If the Measurement Recovery Behavior IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message, the Node B shall, if Measurement Recovery Behavior is supported, include the Measurement Recovery Support Indicator IE in the DEDICATED MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.3.9.2.

Response message
If the Node B was able to initiate the measurement requested by the CRNC, it shall respond with the DEDICATED MEASUREMENT INITIATION RESPONSE message using the Communication Control Port assigned to the Node B Communication Context. The message shall include the same Measurement ID that was used in the measurement request. The DEDICATED MEASUREMENT INITIATION RESPONSE message shall be sent even if the initiation is delayed for some Node B Communication Contexts due to an existing Prepared Reconfiguration or that the Reconfiguration CFN has not yet elapsed.

Only in the case where the Report Characteristics IE is set to "On Demand", the DEDICATED MEASUREMENT INITIATION RESPONSE message shall include the Dedicated Measurement Object Type IE containing the measurement result. [TDD - In the case that the measurement was performed on a particular HS-SICH, the Node B shall include the HS-SICH ID IE that indicates which HS-SICH was measured.]

In the case where the Node B Communication Context ID IE is set to "All NBCC", the CRNC Communication Context ID IE in the DEDICATED MEASUREMENT INITIATION RESPONSE shall be set to the value "All CRNCCC", which is reserved for this purpose.

[FDD - If the Alternative Format Reporting Indicator IE is set to "Alternative format is allowed" in the DEDICATED MEASUREMENT INITIATION REQUEST message, the Node B may include the Extended Round Trip Time IE in the DEDICATED MEASUREMENT INITIATION RESPONSE message.]

Interaction with Reset Procedure:
If a measurement has been requested with the Node B Communication Context ID IE set to "All NBCC", the Node B shall terminate the measurement locally if either the CRNC or the Node B initiates the Reset procedure for the relevant Communication Control Port or the entire Node B.
8.3.8.3 Unsuccessful Operation

If the requested measurement cannot be initiated, the Node B shall send a DEDICATED MEASUREMENT INITIATION FAILURE message using the Communication Control Port assigned to the Node B Communication Context. The message shall include the same Measurement ID that was used in the DEDICATED MEASUREMENT INITIATION REQUEST message and the Cause IE set to an appropriate value.

In the case where the Node B Communication Context ID IE is set to "All NBCC" the CRNC Communication Context ID IE in the DEDICATED MEASUREMENT INITIATION FAILURE shall be set to the value "All CRNCCC", which is reserved for this purpose.

Typical cause values are as follows:

Radio Network Layer cause
- Measurement not supported for the object
- Measurement Temporarily not Available

Miscellaneous Cause
- O&M Intervention
- Control processing overload
- HW failure

8.3.8.4 Abnormal Conditions

The allowed combinations of the Dedicated Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the Node B shall regard the Dedicated Measurement Initiation procedure as failed.
Table 4: Allowed Dedicated Measurement Type and Report Characteristics Type combinations

<table>
<thead>
<tr>
<th>Dedicated Measurement Type</th>
<th>Report Characteristics Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>On Demand</td>
</tr>
<tr>
<td>SIR</td>
<td>X</td>
</tr>
<tr>
<td>SIR Error</td>
<td>X</td>
</tr>
<tr>
<td>Transmitted Code Power</td>
<td>X</td>
</tr>
<tr>
<td>RSCP</td>
<td>X</td>
</tr>
<tr>
<td>Rx Timing Deviation</td>
<td>X</td>
</tr>
<tr>
<td>Round Trip Time</td>
<td>X</td>
</tr>
<tr>
<td>Rx Timing Deviation LCR</td>
<td>X</td>
</tr>
<tr>
<td>HS-SICH reception quality</td>
<td>X</td>
</tr>
<tr>
<td>Best Cell Portions</td>
<td>X</td>
</tr>
<tr>
<td>Angle Of Arrival LCR</td>
<td>X</td>
</tr>
<tr>
<td>Rx Timing Deviation 7.68Mcps</td>
<td>X</td>
</tr>
<tr>
<td>Rx Timing Deviation 3.84Mcps Extended</td>
<td>X</td>
</tr>
<tr>
<td>Best Cell Portions LCR</td>
<td>X</td>
</tr>
</tbody>
</table>

If the Dedicated Measurement Type received in the Dedicated Measurement Type IE is not defined in ref. [4] or [5] to be measured on the Dedicated Measurement Object Type received in the DEDICATED MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

If the CFN IE is included in the DEDICATED MEASUREMENT INITIATION REQUEST message and the Report Characteristics IE is other than "Periodic" or "On Demand", the Node B shall regard the Dedicated Measurement Initiation procedure as failed.

8.3.9 Dedicated Measurement Reporting

8.3.9.1 General

This procedure is used by the Node B to report the result of measurements requested by the CRNC with the Dedicated Measurement Initiation procedure. The Node B may initiate the Dedicated Measurement Reporting procedure at any time after establishing a Radio Link, as long as the Node B Communication Context exists.

8.3.9.2 Successful Operation

![Figure 40: Dedicated Measurement Reporting procedure, Successful Operation](image)

If the requested measurement reporting criteria are met, the Node B shall initiate the Dedicated Measurement Reporting procedure. The DEDICATED MEASUREMENT REPORT message shall use the Communication Control Port assigned to the Node B Communication Context. If the measurement was initiated (by the Dedicated Measurement Initiation procedure) for multiple dedicated measurement objects, the Node B may include measurement values for multiple objects in the DEDICATED MEASUREMENT REPORT message. Unless specified below, the meaning of the parameters are given in other specifications.
The **Measurement ID** IE shall be set to the Measurement ID provided by the CRNC when initiating the measurement with the Dedicated Measurement Initiation procedure.

[TDD - In the case that the measurement was performed on a particular HS-SICH, the Node B shall include the **HS-SICH ID** IE that indicates which HS-SICH was measured.]

If the achieved measurement accuracy does not fulfill the given accuracy requirement (see ref.[22] and [23]) or the measurement is temporarily not available in case Measurement Recovery Behavior is supported, the Measurement not available shall be reported. If the Node B was configured to perform the Measurement Recovery Behavior, the Node B shall indicate Measurement Available to the CRNC when the achieved measurement accuracy again fulfils the given accuracy requirement (see ref. [22] and [23]) and include the **Measurement Recovery Report Indicator** IE in the DEDICATED MEASUREMENT REPORT message if the requested measurement reporting criteria are not met.

[FDD - If the **Alternative Format Reporting Indicator** IE was set to "Alternative format is allowed" in the DEDICATED MEASUREMENT INITIATION REQUEST message setting up the measurement to be reported, the Node B may include the **Extended Round Trip Time** IE in the DEDICATED MEASUREMENT REPORT message.]

### 8.3.9.3 Abnormal Conditions

- 

### 8.3.10 Dedicated Measurement Termination

#### 8.3.10.1 General

This procedure is used by the CRNC to terminate a measurement previously requested by the Dedicated Measurement Initiation procedure.

The Dedicated Measurement Termination procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1 except if the measurement was initiated by the Dedicated Measurement Initiation procedure using the reserved value "All NBCC".

If the measurement was initiated by the Dedicated Measurement Initiation procedure using the reserved value "All NBCC", the Dedicated Measurement Termination procedure may be initiated by the CRNC at any time.

#### 8.3.10.2 Successful Operation

![Figure 41: Dedicated Measurement Termination procedure, Successful Operation](image)

This procedure is initiated with a DEDICATED MEASUREMENT TERMINATION REQUEST message, sent from the CRNC to the Node B using the Communication Control Port assigned to the Node B Communication Context.

Upon reception, the Node B shall terminate reporting of dedicated measurements corresponding to the received **Measurement ID** IE.

#### 8.3.10.3 Abnormal Conditions

- 

---

**ETSI**
8.3.11 Dedicated Measurement Failure

8.3.11.1 General

This procedure is used by the Node B to notify the CRNC that a measurement previously requested by the Dedicated Measurement Initiation procedure can no longer be reported. The Node B is allowed to initiate the DEDICATED MEASUREMENT FAILURE INDICATION message at any time after having sent the RADIO LINK SETUP RESPONSE message, as long as the Node B Communication Context exists.

8.3.11.2 Successful Operation

![Figure 42: Dedicated Measurement Failure procedure, Successful Operation](image-url)

This procedure is initiated with a DEDICATED MEASUREMENT FAILURE INDICATION message, sent from the Node B to the CRNC using the Communication Control Port assigned to the Node B Communication Context, to inform the CRNC that a previously requested measurement can no longer be reported. The Node B has locally terminated the indicated measurement.

If the failed measurement was initiated with the Node B Communication Context ID IE set to the reserved value "All NBCC" and the Node B has terminated the measurement reporting of the measurement corresponding to the Measurement ID indicated in the DEDICATED MEASUREMENT FAILURE INDICATION message, the CRNC Communication Context ID IE shall be set to the value "All CRNCCC".

8.3.11.3 Abnormal Conditions

-

8.3.12 Radio Link Failure

8.3.12.1 General

This procedure is used by the Node B to indicate a failure in one or more Radio Links [FDD - or Radio Link Sets] [TDD or CCTrCHs within a Radio Link].

The Node B may initiate the Radio Link Failure procedure at any time after establishing a Radio Link.

8.3.12.2 Successful Operation

![Figure 43: Radio Link Failure procedure, Successful Operation](image-url)

When the Node B detects that one or more Radio Link(s) [FDD - or Radio Link Set(s)] [TDD - or CCTrCHs within a Radio Link] are no longer available, it sends the RADIO LINK FAILURE INDICATION message to the CRNC.
indicating the failed Radio Link(s) or Radio Link Set(s) or CCTrCHs with the most appropriate cause values in the Cause IE. The message shall use the Communication Control Port assigned to the concerned Node B Communication Context.

If the failure concerns one or more individual Radio Link(s), the Node B shall indicate the affected Radio Link(s) using the RL Information IE. [FDD - If the failure concerns one or more Radio Link Set(s), the Node B shall indicate the affected Radio Link Set(s) using the RL Set Information IE.] [TDD - If the failure concerns only the failure of one or more CCTrCHs within a radio link, the Node B shall indicate the affected CCTrCHs using the CCTrCH ID IE.]

When the Radio Link Failure procedure is used to notify the loss of UL synchronisation of a [FDD - Radio Link Set] [TDD - Radio Link or CCTrCHs within a Radio Link] on the Uu interface, the RADIO LINK FAILURE INDICATION message shall be sent, with the Cause IE set to "Synchronisation Failure", when indicated by the UL out-of-sync algorithm defined in [10] and [21]. [FDD - The algorithms in [10] shall use the maximum value of the parameters N_OUTSYNC_IND and T_RLFailure, and the minimum value of the parameters N_INSYSYNC_IND, that are configured in the cells supporting the radio links of the RL Set.]

[FDD - When the Radio Link Failure procedure is used to indicate permanent failure in one or more Radio Link(s) / Radio Link Set(s) due to the occurrence of an UL or DL frame with more than one transmission gap caused by one or more compressed mode pattern sequences, the DL transmission shall be stopped and the RADIO LINK FAILURE INDICATION message shall be sent with the cause value "Invalid CM Settings". After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the Node B shall not remove the Radio Link(s)/Radio Link Set(s) from the Node B Communication Context or the Node B Communication Context itself.]

[FDD - When the Radio Link Failure Procedure is used to indicate E-DCH non serving cell processing issue, the RADIO LINK FAILURE INDICATION shall be sent, with the Cause IE set to "Not enough user plane processing resources".]

In the other cases, the Radio Link Failure procedure is used to indicate that one or more Radio Link(s)/Radio Link Set(s) are permanently unavailable and cannot be restored. After sending the RADIO LINK FAILURE INDICATION message to notify the permanent failure, the Node B shall not remove the Radio Link/Radio Link Set from the Node B Communication Context or the Node B Communication Context itself. When applicable, the retention priorities associated with the transport channels shall be used by the Node B to prioritise which Radio Link(s)/Radio Link Set(s) to indicate as unavailable to the CRNC.

Typical cause values are:

Radio Network Layer Causes:
- Synchronisation Failure
- Invalid CM settings

Transport Layer Causes:
- Transport Resources Unavailable

Miscellaneous Causes:
- Control Processing Overload
- HW Failure
- O&M Intervention
- Not enough user plane processing resources

8.3.12.3 Abnormal Conditions
-
8.3.13 Radio Link Restoration

8.3.13.1 General

This procedure is used by the Node B to notify the achievement and re-achievement of uplink synchronisation of one or more [FDD - Radio Link Sets][TDD - Radio Links or CCTrCHs within a Radio Link] on the Uu interface.

The Node B may initiate the Radio Link Restoration procedure at any time after establishing a Radio Link.

8.3.13.2 Successful Operation

The Node B shall send the RADIO LINK RESTORE INDICATION message to the CRNC when indicated by the UL synchronisation detection algorithm defined in ref. [10] and [21] [FDD -, or when the Fast Reconfiguration Mode IE has been included in the RADIO LINK RECONFIGURATION COMMIT message and the Node B has detected that the UE has changed to the new configuration. The algorithm in ref. [10] shall use the minimum value of the parameters N_INSYNC_IND that are configured in the cells supporting the radio links of the RL Set.] The message shall use the Communication Control Port assigned to the concerned Node B Communication Context.

[TDD - If the re-established Uu synchronisation concerns one or more individual Radio Links, the Node B shall indicate the affected Radio Link(s) using the RL Information IE.] [TDD - If the re-established Uu synchronisation concerns one or more individual CCTrCHs within a radio link, the Node B shall indicate the affected CCTrCHs using the CCTrCH ID IE.] [FDD - If the re-established Uu synchronisation concerns one or more Radio Link Set(s), the Node B shall indicate the affected Radio Link Set(s) using the RL Set Information IE.]

[FDD - The Node B shall send the RADIO LINK RESTORE INDICATION message when the E-DCH processing issue condition has ceased.]

8.3.13.3 Abnormal Condition

8.3.14 Compressed Mode Command [FDD]

8.3.14.1 General

The Compressed Mode Command procedure is used to activate or deactivate the compressed mode in the Node B for one Node B Communication Context.

The Compressed Mode Command procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.
8.3.14.2 Successful Operation

![Diagram of Compressed Mode Command procedure]

The procedure is initiated by the CRNC sending a COMPRESSED MODE COMMAND message to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

The Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the CM Configuration Change CFN IE requested by the CRNC when receiving the COMPRESSED MODE COMMAND message from the CRNC. From that moment on, all Transmission Gap Pattern Sequences included in Transmission Gap Pattern Sequence Status IE repetitions (if present) shall be started when the indicated TGCFN IE elapses. The CM Configuration Change CFN IE in the Active Pattern Sequence Information IE and TGCFN IE for each sequence refer to the next coming CFN with that value.

If the values of the CM Configuration Change CFN IE and the TGCFN IE are equal, the concerned Transmission Gap Pattern Sequence shall be started immediately at the CFN with a value equal to the value received in the CM Configuration Change CFN IE.

If the concerned Node B Communication Context is configured to use F-DPCH in the downlink, the Node B shall not transmit the F-DPCH during the downlink transmission gaps according to [7]. But in all slots outside of the downlink transmission gaps the NodeB shall transmit the F-DPCH with the normal scrambling code and the assigned slot format, regardless of the configured downlink compressed mode method information and of the transmission gap pattern sequence code information, if existing.

8.3.14.3 Abnormal Conditions

[FDD – If the concerned Node B Communication Context is not configured to use F-DPCH in the downlink and if a transmission gap pattern sequence is activated with an SF/2 downlink compressed mode method and for any Radio Link the transmission gap pattern sequence code information is not available, the NodeB shall trigger the Radio Link Failure procedure with the cause value "Invalid CM Settings".]

8.3.15 Downlink Power Timeslot Control [TDD]

8.3.15.1 General

The purpose of this procedure is to enable the Node B to use the indicated DL Timeslot ISCP values when deciding the DL TX Power for each timeslot.

The Downlink Power Timeslot Control procedure can be initiated by the CRNC at any time when the Node B Communication Context exists, irrespective of other ongoing CRNC initiated dedicated NBAP procedures towards this Node B Communication Context. The only exception occurs when the CRNC has requested the deletion of the last RL via this Node B, in which case the Downlink Power Timeslot Control procedure shall no longer be initiated.

8.3.15.2 Successful Operation

![Diagram of Downlink Power Timeslot Control procedure]

Figure 47A: Downlink Power Timeslot Control procedure, Successful Operation
The procedure is initiated by the CRNC sending a DL POWER TIMESLOT CONTROL REQUEST message to the Node B using the Communication Control Port assigned to the concerned Node B Communication Context.

Upon reception, the Node B shall use the indicated DL Timeslot ISCP value when deciding the DL TX Power for each timeslot as specified in ref. [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged.

If the Primary CCPCH RSCP Delta IE is included, the Node B shall assume that the reported value for Primary CCPCH RSCP is in the negative range as per [23], and the value is equal to the Primary CCPCH RSCP Delta IE. If the Primary CCPCH RSCP Delta IE is not included and the Primary CCPCH RSCP IE is included, the Node B shall assume that the reported value is in the non-negative range as per [23], and the value is equal to the Primary CCPCH RSCP IE. The Node B should use the indicated value for HS-DSCH scheduling and transmit power adjustment.

8.3.15.3 Abnormal Conditions

8.3.16 Radio Link Pre-emption

8.3.16.1 General

This procedure is started by the Node B when resources need to be freed.

The Node B may initiate the Radio Link Pre-emption procedure at any time after establishing a Radio Link.

8.3.16.2 Successful Operation

When the Node B detects that a one or more Radio Links should be pre-empted (see Annex A), it shall send the RADIO LINK PREEMPTION REQUIRED INDICATION message to the CRNC using the Communication Control Port assigned to the concerned Node B Communication Context.

If all Radio Links for a CRNC Communication Context ID should be pre-empted, the RL Information IE shall be omitted. If one or several but not all Radio Links should be pre-empted for a CRNC Communication Context, the Radio Links that should be pre-empted shall be indicated in the RL Information IE. The Radio Link(s) that should be pre-empted should be deleted by the CRNC.

8.3.16.3 Abnormal Conditions

8.3.17 Bearer Re-arrangement

8.3.17.1 General

This procedure is started by the Node B when Bearers for the Node B Communication Context need to be rearranged.

The Node B may initiate the Bearer Rearrangement procedure at any time after establishing a Radio Link.
8.3.17.2 Successful Operation

When the Node B detects that a signaling bearer or a transport bearer or both need to be re-arranged for the Node B Communication Context, it shall send the BEARER REARRANGEMENT INDICATION message to the CRNC. The message shall use the Communication Control Port assigned for this Node B Communication Context.

If the signaling bearer for the control of the Node B Communication Context needs to be rearranged, the Signalling Bearer Requested Indicator IE shall be included in the BEARER REARRANGEMENT INDICATION message.

If the transport bearer for a transport channel needs to be rearranged, the ID of the transport channel for which a new transport bearer is required, shall be included in the BEARER REARRANGEMENT INDICATION message.

[FDD - If the separate Iub transport bearer mode is used and the transport bearer for an E-DCH MAC-d flow needs to be rearranged, the Additional E-DCH Cell Information Bearer Rearrangement IE shall be included in the BEARER REARRANGEMENT INDICATION message.]

8.3.17.3 Abnormal Conditions

8.3.18 Radio Link Activation

8.3.18.1 General

This procedure is used to activate or de-activate the DL transmission on the Uu interface regarding selected RLs.

8.3.18.2 Successful Operation

This procedure is initiated by sending the RADIO LINK ACTIVATION COMMAND message from the CRNC to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context. Upon reception, the Node B shall for each concerned RL:

- if the Delayed Activation Update IE indicates "Activate":
  - if the Activation Type IE equals "Unsynchronised":

---

**Figure 47C: Bearer Re-arrangement Indication, Successful Operation**

**Figure 47D: Radio Link Activation procedure**
- [FDD - start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].]
- [TDD - start transmission on the new RL immediately as specified in [16].]
- if the Activation Type IE equals "Synchronised":
  - [FDD - start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16], however never before the CFN indicated in the Activation CFN IE.]
  - [TDD - start transmission on the new RL at the CFN indicated in the Activation CFN IE as specified in [16].]
- [FDD - the Node B shall apply the power level indicated in the Initial DL Tx Power IE to the transmission on each DL DPCH or on the F-DPCH of the RL when starting transmission until either UL synchronisation on the Uu interface is achieved for the RLS or power balancing is activated. During this period no inner loop power control shall be performed and, unless activated by the DL POWER CONTROL REQUEST message, no power balancing shall be performed. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) and downlink power balancing adjustments (see subclause 8.3.7).]
- [TDD - the Node B shall apply the power level indicated in the Initial DL Tx Power IE to the transmission on each DL DPCH and on each Time Slot of the RL when starting transmission until the UL synchronisation on the Uu interface is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3).]
- [FDD - if the Propagation Delay IE and optionally the Extended Propagation Delay IE are included, the Node B may use this information to speed up the detection of UL synchronisation on the Uu interface.]
- [FDD - if the First RLS Indicator IE is included, it indicates if the concerned RL shall be considered part of the first RLS established towards this UE. The First RLS Indicator IE shall be used by the Node B together with the value of the DL TPC Pattern 01 Count IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerned RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]
- if the Delayed Activation Update IE indicates "Deactivate":
  - stop DL transmission immediately, if the Deactivation Type IE equals "Unsynchronised", or at the CFN indicated by the Deactivation CFN IE, if the Deactivation Type IE equals "Synchronised".

8.3.18.3 Abnormal Conditions

[FDD - If the Delayed Activation Update IE is included in the RADIO LINK ACTIVATION COMMAND message, it indicates "Activate" and the First RLS Indicator IE is not included, the Node B shall initiate the Error Indication procedure.]

8.3.19 Radio Link Parameter Update

8.3.19.1 General

The Radio Link Parameter Update procedure is executed by the Node B when the update of HS-DSCH [FDD - or E-DCH] related radio link parameter values are needed on the Node B side. With this procedure, Node B can suggest some HS-DSCH [FDD - or E-DCH] related Radio Link Parameter values to RNC.

The Radio Link Parameter Update procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in subclause 3.1.
8.3.19.2 Successful Operation

Figure 48: Radio Link Parameter Update Indication, Successful Operation

The Node B initiates the Radio Link Parameter Update procedure by sending the RADIO LINK PARAMETER UPDATE INDICATION message to the CRNC. The message contains suggested value(s) of the HS-DSCH [FDD - or E-DCH] related parameter(s) that should be reconfigured on the radio link(s).

If the Node B needs to update HS-DSCH related parameters, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including [FDD - HS-DSCH FDD Update Information IE] [TDD - HS-DSCH TDD Update Information IE].

If the Node B needs to allocate new HS-SCCH Codes, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including HS-SCCH Code Change Indicator IE.

[FDD - If the Node B needs to allocate new HS-PDSCH Codes, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including HS-PDSCH Code Change Indicator IE.]

[FDD - If the Node B needs to update the CQI Feedback Cycle k, CQI Repetition Factor, ACK-NACK Repetition Factor, CQI Power Offset, ACK Power Offset and/or NACK Power Offset, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including CQI Feedback Cycle k IE, CQI Repetition Factor IE, ACK-NACK Repetition Factor IE, CQI Power Offset IE, ACK Power Offset IE and/or NACK Power Offset IE.]

[FDD - If the Node B needs to update Secondary Serving HS-DSCH related parameters, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including Additional HS Cell Information RL Param Upd IE.]

- [FDD - If the Node B needs to allocate new secondary serving HS-SCCH Codes, the Node B shall include the HS-SCCH Code Change Indicator IE in the HS-DSCH FDD Secondary Serving Update Information IE.]

[TDD - If the Node B needs to update the TDD ACK-NACK Power Offset the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including TDD ACK-NACK Power Offset IE.]

[FDD - If the Node B needs to update E-DCH related parameters, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including the E-DCH FDD Update Information IE.]

[FDD - If the Node B needs to update the HARQ process allocation for non-scheduled transmission and/or HARQ process allocation for scheduled Transmission, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including the HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant IE for the concerned MAC-d Flows and/or HARQ Process Allocation For 2ms Scheduled Transmission Grant IE.]

[FDD - If the Node B needs to allocate new E-AGCH Channelisation Code, new E-RGCH/E-HICH Channelisation Code, new E-RGCH Signature Sequence and/or new E-HICH Signature Sequence, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including E-DCH DL Control Channel Change Information IE.]

[FDD - If the Node B needs to update Additional E-DCH related parameters, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including Additional E-DCH Cell Information RL Param Upd IE.]

- [FDD - If the Node B needs to update the HARQ process allocation for scheduled Transmission, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including the HARQ Process Allocation For 2ms Scheduled Transmission Grant IE for the concerned MAC-d Flows.]

- [FDD - If the Node B needs to allocate new E-AGCH Channelisation Code, new E-RGCH/E-HICH Channelisation Code, new E-RGCH Signature Sequence and/or new E-HICH Signature Sequence, the Node B shall initiate RADIO LINK PARAMETER UPDATE INDICATION message including Additional E-DCH DL Control Channel Change Information IE.]
8.3.19.3 Abnormal Conditions

8.3.20 Secondary UL Frequency Reporting [FDD]

8.3.20.1 General

The purpose of this procedure is to inform the Node B about the activation state of the secondary UL frequency of the UE in Dual Cell E-DCH operation.

8.3.20.2 Successful Operation

![Figure 48A: Secondary UL Frequency Reporting procedure](image)

The Secondary UL Frequency Reporting procedure is initiated by sending the SECONDARY UL FREQUENCY REPORT message from the CRNC to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

The Activation Information IE is included it defines the local activation state of the Secondary uplink frequency of the UE in Dual Cell E-DCH operation.

- If the value of Uu Activation State IE is "Activated": the Node B shall if supported use this information for resource allocation operation of the secondary E-DCH radio link(s), F-DPCH transmission and DPCCH detection.

- If the value of Uu Activation State IE is "De-Activated": the Node B shall if supported use this information for release of the related resources for the secondary E-DCH radio link(s), cease of F-DPCH transmission and DPCCH detection.

8.3.20.3 Abnormal Conditions

-  

8.3.21 Secondary UL Frequency Update [FDD]

8.3.21.1 General

The purpose of this procedure is to inform the CRNC about updates to activation state of the secondary UL frequency of the UE in Dual Cell E-DCH operation.

8.3.21.2 Successful Operation

![Figure 48B: Secondary UL Frequency Update procedure](image)
The Secondary UL Frequency Update procedure is initiated by the Node B by sending the SECONDARY UL FREQUENCY UPDATE INDICATION message to the CRNC. The message shall use the Communication Control Port assigned to the concerned Node B Communication Context.

If the Node B needs to update the local activation state of the Secondary uplink frequency of the UE in Dual Cell E-DCH operation, the Node B shall send SECONDARY UL FREQUENCY UPDATE INDICATION message and include the Activation Information IE.

8.3.21.3 Abnormal Conditions

8.4 Error Handling Procedures

8.4.1 Error Indication

8.4.1.1 General

The Error Indication procedure is initiated by a node in order to report detected errors in one incoming message, provided they cannot be reported by an appropriate response message.

8.4.1.2 Successful Operation

When the conditions defined in subclause 10 are fulfilled, the Error Indication procedure is initiated by an ERROR INDICATION message sent from the receiving node.

In case the Error Indication procedure was triggered by a dedicated procedure, the following applies:

- When the ERROR INDICATION message is sent from a Node B to its CRNC, the CRNC Communication Context ID IE shall be included in the message if the corresponding Node B Communication Context, addressed by the Node B Communication Context ID IE which was received in the message triggering the Error Indication procedure, exists;

- When the ERROR INDICATION message is sent from a CRNC to a Node B, the Node B Communication Context ID IE shall be included in the message if the corresponding CRNC Communication Context, addressed by the CRNC Communication Context ID IE which was received in the message triggering the Error Indication procedure, exists;

- When the message triggering the Error Indication procedure is received in the Node B and there is no Node B Communication Context as indicated by the Node B Communication Context ID IE, the Node B shall include the unknown Node B Communication Context ID IE from the received message in the ERROR INDICATION message, unless another handling is specified in the procedure text for the affected procedure.

- When the message triggering the Error Indication procedure is received in the CRNC and there is no CRNC Communication Context as indicated by the CRNC Communication Context ID IE, the CRNC shall include the unknown CRNC Communication Context ID IE from the received message in the ERROR INDICATION message, unless another handling is specified in the procedure text for the affected procedure.

The ERROR INDICATION message shall include either the Cause IE, or the Criticality Diagnostics IE or both the Cause IE and the Criticality Diagnostics IE.

Typical cause values for the ERROR INDICATION message are:

Protocol Causes:

- Transfer Syntax Error
- Abstract Syntax Error (Reject)
- Abstract Syntax Error (Ignore and Notify)
- Message not Compatible with Receiver State
8.4.1.3 Abnormal Conditions

9 Elements for NBAP communication

9.1 Message Functional Definition and Contents

9.1.1 General

Subclause 9.1 presents the contents of NBAP messages in tabular format. The corresponding ASN.1 definition is presented in subclause 9.3. In case there is contradiction between the tabular format in subclause 9.1 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional IEs, where the tabular format shall take precedence.

NOTE: The messages have been defined in accordance to the guidelines specified in ref. [26].

9.1.2 Message Contents

9.1.2.1 Presence

An information element can be of the following types:

| M | IEs marked as Mandatory (M) shall always be included in the message. |
| O | IEs marked as Optional (O) may or may not be included in the message. |
| C | IEs marked as Conditional (C) shall be included in a message only if the condition is satisfied. Otherwise the IE shall not be included. |
In case of an Information Element group, the group is preceded by a name for the info group (in bold). It is also indicated how many times a group may be repeated in the message and whether the group is conditional. The presence field of the Information Elements inside one group defines if the Information Element is mandatory, optional or conditional if the group is present.

9.1.2.2 Criticality

Each Information Element or Group of Information Elements may have a criticality information applied to it. Following cases are possible:

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>–</td>
<td>No criticality information is applied explicitly</td>
</tr>
<tr>
<td>YES</td>
<td>Criticality information is applied. “YES” is usable only for non-repeatable information elements.</td>
</tr>
<tr>
<td>GLOBAL</td>
<td>The information element and all its repetitions together have one common criticality information. “GLOBAL” is usable only for repeatable information elements.</td>
</tr>
<tr>
<td>EACH</td>
<td>Each repetition of the information element has its own criticality information. It is not allowed to assign different criticality values to the repetitions. “EACH” is usable only for repeatable information elements.</td>
</tr>
</tbody>
</table>

9.1.2.3 Range

The Range column indicates the allowed number of copies of repetitive IEs.

9.1.2.4 Assigned Criticality

This column provides the actual criticality information as defined in subclause 10.3.2, if applicable.
### 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

#### 9.1.3.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Generation ID</td>
<td>M</td>
<td>9.2.1.16</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CHOICE Common Physical Channel To Be Configured</strong></td>
<td>M</td>
<td></td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Secondary CCPCH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Secondary CCPCH</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;FDD SCCPCH Offset</td>
<td>M</td>
<td>9.2.2.15</td>
<td>Corresponds to [7]: s-CCPCH,k</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;DL Scrambling Code</td>
<td>C-PCH</td>
<td>9.2.2.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;FDD DL Channelisation Code Number</td>
<td>M</td>
<td>9.2.2.14</td>
<td>In case of IMB using multiple channelization codes then this IE indicates the first one.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TFCS</td>
<td>M</td>
<td>9.2.1.58</td>
<td>For the DL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Secondary CCPCH Slot Format</td>
<td>M</td>
<td>9.2.2.43</td>
<td>If Extended Secondary CCPCH Slot Format IE is present, this IE shall be ignored</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;TFCI Presence</td>
<td>C-SlotFormat or 3.84Mcps TDD IMB</td>
<td>9.2.1.57</td>
<td>Refer to TS [7]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Power Offset Information</td>
<td>M</td>
<td>9.2.2.23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;PO1</td>
<td>M</td>
<td>Power Offset 9.2.2.29</td>
<td>Power offset for the TFCI bits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;PO3</td>
<td>M</td>
<td>Power Offset 9.2.2.29</td>
<td>Power offset for the pilot bits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;STTD Indicator</td>
<td>M</td>
<td>9.2.2.48</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;FACH Parameters</td>
<td>0..&lt;maxno ofFACHs&gt;</td>
<td>GLOBAL</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Common Transport Channel ID</td>
<td>M</td>
<td>9.2.1.14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Transport Format Set</td>
<td>M</td>
<td>9.2.1.59</td>
<td>For the DL.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;ToAWS</td>
<td>M</td>
<td>9.2.1.61</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;ToAWE</td>
<td>M</td>
<td>9.2.1.60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter Type</td>
<td>Mode</td>
<td>Parameter</td>
<td>Description</td>
<td>Action</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------</td>
<td>-----------</td>
<td>-----------------------------------------------------------------------------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Max FACH Power</td>
<td>M</td>
<td>DL Power</td>
<td>Maximum allowed power on the FACH.</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Broadcast Reference</td>
<td>O</td>
<td>9.2.1.5C</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;IP Multicast Indication</td>
<td>O</td>
<td>9.2.1.108</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;PCH Parameters</td>
<td>0..1</td>
<td>YES reject</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Common Transport Channel ID</td>
<td>M</td>
<td>9.2.1.14</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Transport Format Set</td>
<td>M</td>
<td>9.2.1.59</td>
<td>For the DL.</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;ToAWS</td>
<td>M</td>
<td>9.2.1.61</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;ToAWE</td>
<td>M</td>
<td>9.2.1.60</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;PCH Power</td>
<td>M</td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;PICH Parameters</td>
<td>1</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;FDD DL Channelisation Code Number</td>
<td>M</td>
<td>9.2.2.14</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;PICH Power</td>
<td>M</td>
<td>9.2.1.49A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;PICH Mode</td>
<td>M</td>
<td>9.2.2.26</td>
<td>Number of PI per frame</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;STTD Indicator</td>
<td>M</td>
<td>9.2.2.48</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;MICH Parameters</td>
<td>0..1</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------</td>
<td>------</td>
<td>-----</td>
<td>--------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;FDD DL Channelisation Code Number</td>
<td>M</td>
<td>9.2.2.14</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;MICH Power</td>
<td>M</td>
<td>PICH Power 9.2.1.49A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;MICH Mode</td>
<td>M</td>
<td>9.2.2.21D Number of NI per frame</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;STTD Indicator</td>
<td>M</td>
<td>9.2.2.48</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;FDD S-CCPCH Frame Offset</td>
<td>O</td>
<td>9.2.2.14B</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Modulation Power Offset</td>
<td>O</td>
<td>9.2.2.91 Used for MBSFN operation and 3.84Mcps TDD MBSFN IMB operation only</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Extended Secondary CCPCH Slot Format</td>
<td>O</td>
<td>9.2.2.92 Used for MBSFN operation only</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;IMB Parameters</td>
<td>O</td>
<td>9.2.2.115 Used for 3.84Mcps TDD MBSFN IMB operation only</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| >PRACH |
| <<PRACH | 1 | – |
| >>>Common Physical Channel ID | M | 9.2.1.13 | – |
| >>>Scrambling Code Number | M | 9.2.2.42 | – |
| >>>TFCS | M | 9.2.1.58 For the UL. | – |
| >>>Preamble Signatures | M | 9.2.2.31 | – |
| >>>Allowed Slot Format Information | 1..<maxno ofSlotFormatsPRACH> | – |
| >>>RACH Slot Format | M | 9.2.2.37 | – |
| >>>RACH Sub Channel Numbers | M | 9.2.2.38 | – |
| >>>Puncture Limit | M | 9.2.1.50 For the UL. | – |
| >>>Preamble Threshold | M | 9.2.2.32 | – |
| >>>RACH Parameters | 1 | YES | reject |
| >>>Common Transport Channel ID | M | 9.2.1.14 | – |
| >>>Transport Format Set | M | 9.2.1.59 For the UL. | – |
| >>>Binding ID | O | 9.2.1.4 Shall be ignored if bearer establishment with ALCAP. | YES | ignore |
### Transport Layer Address

<table>
<thead>
<tr>
<th>SlotFormat or 3.84Mcps TDD IMB</th>
<th>SlotFormat or 3.84Mcps TDD IMB</th>
<th>PCH</th>
<th>PCH</th>
<th>PCH</th>
<th>PCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofFACHs</td>
<td>Maximum number of FACHs that can be defined on a Secondary CCPCH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofSlotFormatsPRACH</td>
<td>Maximum number of SF for a PRACH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## 9.1.3.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Generation ID</td>
<td>M</td>
<td></td>
<td>9.2.1.16</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Common Physical Channel To Be Configured</td>
<td>M</td>
<td></td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Secondary CCPCHs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SCCPCH CCTrCH ID</td>
<td>M</td>
<td></td>
<td>9.2.3.3</td>
<td>For DL CCTrCH supporting one or several Secondary CCPCHs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TFCS</td>
<td>M</td>
<td>9.2.1.58</td>
<td></td>
<td>For DL CCTrCH supporting one or several Secondary CCPCHs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TFCI Coding</td>
<td>M</td>
<td></td>
<td>9.2.3.22</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Puncture Limit</td>
<td>M</td>
<td></td>
<td>9.2.1.50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CHOICE HCR or LCR or 7.68 Mcps</td>
<td>M</td>
<td>9.2.1.50</td>
<td>See note 1 below</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;3.84Mcps TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Secondary CCPCH</td>
<td></td>
<td></td>
<td>1..&lt;maxno ofSCCPC Hs&gt;</td>
<td>See note 2 below</td>
<td>GLOBAL reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td></td>
<td>9.2.3.19</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td></td>
<td>9.2.3.23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td></td>
<td>9.2.3.7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Physical Channel Offset</td>
<td>M</td>
<td></td>
<td>9.2.3.20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repetition Period</td>
<td>M</td>
<td></td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repetition Length</td>
<td>M</td>
<td></td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SCCPC Power</td>
<td>M</td>
<td></td>
<td>DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TFCI Presence</td>
<td>O</td>
<td></td>
<td>9.2.1.57</td>
<td>YES notify</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;1.28Mcps TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Secondary CCPCH LCR</td>
<td></td>
<td></td>
<td>1..&lt;maxno ofSCCPC HsLCR&gt;</td>
<td>See note 2 below</td>
<td>GLOBAL reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Function</td>
<td>Type</td>
<td>9.2.3.x</td>
<td>Notes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>------</td>
<td>---------</td>
<td>-------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD Channelisation Code LCR</td>
<td>M</td>
<td>9.2.3.19a</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td>For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, the NodeB shall ignore the contents of this IE.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.20</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;SCCPCH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;SCCPCH Time Slot Format LCR</td>
<td>M</td>
<td>TDD DL DPCH Time Slot Format LCR 9.2.3.19D</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;MBSFN Special Time Slot LCR</td>
<td>O</td>
<td>Time Slot LCR Extension 9.2.3.24B</td>
<td>Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot [19]. The Time Slot LCR IE for the Secondary CCPCH LCR shall be ignored if this IE appears.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;7.68 Mcps TDD</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Secondary CCPCH 7.68 Mcps</td>
<td>1..&lt;maxno ofSCCPCCHs768&gt;</td>
<td>GLOBAL</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Common Physical Channel ID 768Mcps</td>
<td>M</td>
<td>9.2.3.33</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td>9.2.3.34</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TFCI Presence</td>
<td>O</td>
<td>9.2.1.57</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>&gt;&gt;&gt;FACH Parameters</strong></td>
<td>0..&lt;maxno of FACHs&gt;</td>
<td>GLOBAL</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------------</td>
<td>--------</td>
<td>--------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Common Transport Channel ID</td>
<td>M</td>
<td>9.2.1.14</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;FACH CCTrCH ID</td>
<td>M</td>
<td>CCTrCH ID 9.2.3.3</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Transport Format Set</td>
<td>M</td>
<td>9.2.1.59</td>
<td>For the DL.</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;ToAWS</td>
<td>M</td>
<td>9.2.1.61</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;ToAWE</td>
<td>M</td>
<td>9.2.1.60</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Max FACH Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Broadcast Reference</td>
<td>O</td>
<td>9.2.1.5C</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;IP Multicast Indication</td>
<td>O</td>
<td>9.2.1.108</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>&gt;&gt;&gt;PICH Parameters</strong></td>
<td>0..1</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Common Transport Channel ID</td>
<td>M</td>
<td>9.2.1.14</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;PICH CCTrCH ID</td>
<td>M</td>
<td>CCTrCH ID 9.2.3.3</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Transport Format Set</td>
<td>M</td>
<td>9.2.1.59</td>
<td>For the DL.</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;ToAWS</td>
<td>M</td>
<td>9.2.1.61</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;ToAWE</td>
<td>M</td>
<td>9.2.1.60</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;CHOICE HCR or LCR or 7.68Mcps</td>
<td>M</td>
<td>See note 1 below</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;3.84Mcps TDD</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;PICH Parameters</td>
<td>0..1</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>M</td>
<td>9.2.3.19</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------------</td>
<td>---------</td>
<td>----</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channelisation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;Time Slot</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;Midamble</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shift And Burst</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Channel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Offset</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>9.2.3.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;Repetition</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Period</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;Repetition</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;Paging</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicator Length</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>9.2.3.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;PICH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>9.2.1.49A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| >>>>>>1.28Mcps TDD                        |                 |         |    |
| >>>>>>PICH                                |                 |         |    |
| Parameters LCR                           |                 |         |    |
| M                                        | 9.2.1.13 |        |    |
| >>>>>>Common                              |                 |         |    |
| Physical Channel                          |                 |         |    |
| ID                                       |                 |         |    |
| M                                        | 9.2.3.19a |      |    |
| >>>>>>TDD                                |                 |         |    |
| Channelisation                           |                 |         |    |
| Code LCR                                 |                 |         |    |
| M                                        | 9.2.3.24A |      |    |
| >>>>>>Time Slot                          |                 |         |    |
| LCR                                      |                 |         |    |
| M                                        | 9.2.3.7A |        |    |
| >>>>>>Midamble                            |                 |         |    |
| Shift LCR                                |                 |         |    |
| M                                        | 9.2.3.20 |        |    |
| >>>>>>TDD                                |                 |         |    |
| Physical Channel                          |                 |         |    |
| Offset                                    |                 |         |    |
| M                                        | 9.2.3.16 |        |    |
| >>>>>>Repetition                          |                 |         |    |
| Period                                   |                 |         |    |
| M                                        | 9.2.3.15 |        |    |
| >>>>>>Paging                              |                 |         |    |
| Indicator Length                         |                 |         |    |
| M                                        | 9.2.3.8  |        |    |
| >>>>>>PICH                               |                 |         |    |
| Power                                    |                 |         |    |
| M                                        | 9.2.1.49A |       |    |
| >>>>>>Second                             |                 |         |    |
| TDD Channelisation                        |                 |         |    |
| Code LCR                                 |                 |         |    |
| M                                        | 9.2.3.20 |        |    |
| >>>>>>TSTD                                |                 |         |    |
| Indicator                                |                 |         |    |
| O                                        | 9.2.1.64 |        |    |

<p>| &gt;&gt;&gt;&gt;&gt;&gt;7.68Mcps TDD                        |                 |         |    |
| &gt;&gt;&gt;&gt;&gt;&gt;PICH                                |                 |         |    |
| Parameters                               |                 |         |    |
| M                                        | 9.2.3.33 |        |    |
| &gt;&gt;&gt;&gt;&gt;&gt;Common                              |                 |         |    |
| Physical Channel                          |                 |         |    |
| ID 768Mcps                                |                 |         |    |
| M                                        | 9.2.3.34 |        |    |
| &gt;&gt;&gt;&gt;&gt;&gt;TDD                                |                 |         |    |
| Channelisation                           |                 |         |    |
| Code 7.68Mcps                             |                 |         |    |
| M                                        | 9.2.3.23 |        |    |</p>
<table>
<thead>
<tr>
<th>Parameter</th>
<th>M</th>
<th>9.2.3.35</th>
<th>–</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.20</td>
<td>–</td>
</tr>
<tr>
<td>TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.16</td>
<td>–</td>
</tr>
<tr>
<td>Repetition Period</td>
<td>M</td>
<td>9.2.3.15</td>
<td>–</td>
</tr>
<tr>
<td>Repetition Length</td>
<td>M</td>
<td>9.2.3.8</td>
<td>–</td>
</tr>
<tr>
<td>Paging Indicator Length</td>
<td>M</td>
<td>9.2.1.49A</td>
<td>–</td>
</tr>
<tr>
<td>PICH Power</td>
<td>O</td>
<td>DL Power</td>
<td>Applicable to 1.28Mcps TDD only</td>
</tr>
<tr>
<td>Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>TSTD Indicator</td>
<td>O</td>
<td>9.2.1.64</td>
<td>YES reject</td>
</tr>
<tr>
<td>MICH Parameters</td>
<td>0..1</td>
<td></td>
<td>YES reject</td>
</tr>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td>–</td>
</tr>
<tr>
<td>TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.20</td>
<td>–</td>
</tr>
<tr>
<td>Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td>–</td>
</tr>
<tr>
<td>Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td>–</td>
</tr>
<tr>
<td>Notification Indicator Length</td>
<td>M</td>
<td>9.2.3.7Aa</td>
<td>–</td>
</tr>
<tr>
<td>MICH Power</td>
<td>M</td>
<td>PICH Power 9.2.1.49A</td>
<td>–</td>
</tr>
<tr>
<td>CHOICE HCR or LCR or 7.68 Mcps</td>
<td>M</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>3.84Mcps TDD</td>
<td>1</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>MICH Parameters HCR</td>
<td>1</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td>–</td>
</tr>
<tr>
<td>Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
</tr>
<tr>
<td>Midamble Shift And Burst Type</td>
<td>M</td>
<td>9.2.3.7</td>
<td>–</td>
</tr>
<tr>
<td>1.28Mcps TDD</td>
<td>1</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>Parameters LCR</td>
<td>f</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>-----</td>
<td>----</td>
<td></td>
</tr>
<tr>
<td>TDD Channelisation</td>
<td>M</td>
<td>9.2.3.19a</td>
<td>–</td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td>–</td>
</tr>
<tr>
<td>Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td>For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, the NodeB shall ignore the contents of this IE.</td>
</tr>
<tr>
<td>TDD Channelisation</td>
<td>M</td>
<td>TDD Channelisation Code LCR 9.2.3.19a</td>
<td>–</td>
</tr>
<tr>
<td>TSTD Indicator</td>
<td>M</td>
<td>9.2.1.64</td>
<td>–</td>
</tr>
<tr>
<td>MBSFN Special Time Slot LCR</td>
<td>O</td>
<td>Time Slot LCR Extension 9.2.3.24B</td>
<td>Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot [19]. The Time Slot LCR IE for the MICH parameters LCR shall be ignored if this IE appears.</td>
</tr>
<tr>
<td>7.68 Mcps TDD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICH Parameters 7.68 Mcps</td>
<td>1</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>TDD Channelisation</td>
<td>M</td>
<td>9.2.3.34</td>
<td>–</td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
</tr>
<tr>
<td>Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td>–</td>
</tr>
<tr>
<td>Modulation</td>
<td>O</td>
<td>9.2.1.87</td>
<td>Applicable to 3.84Mcps TDD and 7.68Mcps TDD in MBSFN operation only</td>
</tr>
<tr>
<td>Time Slot Configuration LCR</td>
<td>O</td>
<td>0..7</td>
<td>Applicable to 1.28Mcps TDD for MBSFN. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.</td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td>–</td>
</tr>
<tr>
<td>Parameter</td>
<td>ID</td>
<td>Cell Parameter ID</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>----</td>
<td>-------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15]. This IE indicates the frequency of the Secondary Frequency on which SCCPCH is configured. Applicable to 1.28Mcps TDD MBSFN. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.</td>
</tr>
</tbody>
</table>

>>PRACH

| CHOICE HCR or LCR or 7.68 Mcps | M  | See note 1 below | – |

>>>3.84Mcps TDD

<table>
<thead>
<tr>
<th>PRACH</th>
<th>1</th>
<th>YES reject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
</tr>
<tr>
<td>TFCS</td>
<td>M</td>
<td>9.2.1.58</td>
</tr>
<tr>
<td>Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
</tr>
<tr>
<td>TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
</tr>
<tr>
<td>Max PRACH Midamble Shifts</td>
<td>M</td>
<td>9.2.3.6</td>
</tr>
<tr>
<td>PRACH Midamble</td>
<td>M</td>
<td>9.2.3.14</td>
</tr>
</tbody>
</table>

>>>RACH | 1  | YES reject |
| Common Transport Channel ID | M  | 9.2.1.14   | – |
| Transport Format Set | M  | 9.2.1.59   | For the UL |
| Binding ID | O  | 9.2.1.4    | Shall be ignored if bearer establishment with ALCAP. |

||||
| Transport Layer Address | O  | 9.2.1.63   | Shall be ignored if bearer establishment with ALCAP. |
| TNL QoS | O  | 9.2.1.58A  | Shall be ignored if bearer establishment with ALCAP. |

>>>1.28Mcps TDD

| – | – | – | – |
### Table 1: PRACH Configuration Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
</tr>
<tr>
<td>TFCS</td>
<td>M</td>
<td>9.2.1.58</td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
</tr>
<tr>
<td>TDD Channelisation Code LCR</td>
<td>M</td>
<td>9.2.3.19a</td>
</tr>
<tr>
<td>Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
</tr>
<tr>
<td>Common Transport Channel ID</td>
<td>M</td>
<td>9.2.1.14</td>
</tr>
<tr>
<td>Transport Format Set</td>
<td>M</td>
<td>9.2.1.59 For the UL</td>
</tr>
<tr>
<td>Binding ID</td>
<td>O</td>
<td>9.2.1.4 Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63 Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>TNL QoS</td>
<td>O</td>
<td>9.2.1.58A Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>UARFCN</td>
<td>O</td>
<td>9.2.1.65 Corresponds to Nt [15]. This IE indicates the frequency of the secondary frequency on which PRACH to be set up. See note 3 below.</td>
</tr>
</tbody>
</table>

### Table 2: PRACH Configuration Parameters (7.68 Mcps TDD)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Physical Channel ID 768Mcps</td>
<td>M</td>
<td>9.2.3.33</td>
</tr>
<tr>
<td>TFCS</td>
<td>M</td>
<td>9.2.1.58</td>
</tr>
<tr>
<td>Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
</tr>
<tr>
<td>TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td>9.2.3.34</td>
</tr>
<tr>
<td>Max PRACH Midamble Shifts</td>
<td>M</td>
<td>9.2.3.6</td>
</tr>
</tbody>
</table>

Note: See note 3 below.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>3GPP</th>
<th>3GPP</th>
<th>ETSI</th>
<th>ETSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;PRACH Midamble</td>
<td>M</td>
<td>9.2.3.14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;RACH</td>
<td>1</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;Common Transport Channel ID</td>
<td>M</td>
<td>9.2.1.14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;Transport Format Set</td>
<td>M</td>
<td>9.2.1.59</td>
<td>For the UL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;FPACH</td>
<td>0..1</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code LCR</td>
<td>M</td>
<td>9.2.3.19a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Max FPACH Power</td>
<td>M</td>
<td>9.2.3.5E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to $N_t {15}$ This IE indicates the frequency of Secondary Frequency on which FPACH to be set up.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;PLCCH</td>
<td></td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Max PLCCH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RUCCH</td>
<td></td>
<td>3.84Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range Bound</td>
<td>Explanation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------</td>
<td>------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofSCCPCHs</td>
<td>Maximum number of Secondary CCPCHs per CCTrCH for 3.84Mcps TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofSCCPCHsLCR</td>
<td>Maximum number of Secondary CCPCHs per CCTrCH for 1.28Mcps TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofSCCPCHs768</td>
<td>Maximum number of Secondary CCPCHs per CCTrCH for 7.68 Mcps TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofFACHs</td>
<td>Maximum number of FACHs that can be defined on a Secondary CCPCH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofPRACHLCRs</td>
<td>Maximum number of PRACHs LCR that can be defined on a RACH for 1.28Mcps TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE 1: This information element is a simplified representation of the ASN.1. The choice is in reality performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

NOTE 2: This information element is a simplified representation of the ASN.1. Repetitions 1 to 8 and repetitions 9 to maxnoofSCCPCHs / maxnoofSCCPCHsLCR are represented by separate ASN.1 structures.

NOTE 3: The configured PRACH resources on secondary frequency shall only be used for E-DCH random access.
### 9.1.4 COMMON TRANSPORT CHANNEL SETUP RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FACH Parameters Info</td>
<td></td>
<td></td>
<td>0..&lt;maxno ofFACHs&gt;</td>
<td>The FACH Parameters may be combined with PCH Parameters</td>
<td>GLOBAL</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;FACH Parameters</td>
<td>M</td>
<td></td>
<td>Common Transport Channel Information Response 9.2.1.14A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCH Parameters</td>
<td>O</td>
<td></td>
<td>Common Transport Channel Information Response 9.2.1.14A</td>
<td>The PCH Parameters may be combined with FACH Parameters</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>RACH Parameters</td>
<td>O</td>
<td></td>
<td>Common Transport Channel Information Response 9.2.1.14A</td>
<td>The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno of FACHs</td>
<td>Maximum number of FACHs that can be defined on a Secondary CCPCH[FDD] / a group of Secondary CCPCHs [TDD]</td>
</tr>
</tbody>
</table>

### 9.1.5 COMMON TRANSPORT CHANNEL SETUP FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
</tbody>
</table>
### 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

#### 9.1.6.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Generation ID</td>
<td>M</td>
<td></td>
<td>9.2.1.16</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Common Physical Channel To Be Configured</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

>Secondary CCPCH

**>>FACH Parameters** 0..<maxFA CHCell> GLOBAL reject

| >>>Common Transport Channel ID                     | M        | 9.2.1.14 |                        |                        |            |                      |
| >>>Max FACH Power                                  | O        | 9.2.1.21 | Maximum allowed power on the FACH. |                        |            |                      |
| >>>ToAWS                                           | O        | 9.2.1.61 |                        |                        |            |                      |
| >>>ToAWE                                           | O        | 9.2.1.60 |                        |                        |            |                      |
| >>>TNL QoS                                         | O        | 9.2.1.58A | Shall be ignored if bearer reconfiguration with ALCAP. | YES ignore |            |                      |

**>>PCH Parameters** 0..1 YES reject

| >>>Common Transport Channel ID                     | M        | 9.2.1.14 |                        |                        |            |                      |
| >>>PCH Power                                       | O        | 9.2.1.21 | Power to be used on the PCH. |                        |            |                      |
| >>>ToAWS                                           | O        | 9.2.1.61 |                        |                        |            |                      |
| >>>ToAWE                                           | O        | 9.2.1.60 |                        |                        |            |                      |
| >>>TNL QoS                                         | O        | 9.2.1.58A | Shall be ignored if bearer reconfiguration with ALCAP. | YES ignore |            |                      |

**>>PICH Parameters** 0..1 YES reject

| >>>Common Physical Channel ID                      | M        | 9.2.1.13 |                        |                        |            |                      |
| >>>PICH Power                                      | O        | 9.2.1.49A |                        |                        |            |                      |

**>>MICH Parameters** 0..1 YES reject

| >>>Common Physical Channel ID                      | M        | 9.2.1.13 |                        |                        |            |                      |
| >>>MICH Power                                      | O        | PICH Power 9.2.1.49A |                        |                        |            |                      |

>PRACH

**>>PRACH Parameters** 0..<maxP RACHCell> GLOBAL reject
<table>
<thead>
<tr>
<th>Component</th>
<th>M</th>
<th>9.2.1.13</th>
<th>–</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>O</td>
<td>9.2.2.31</td>
<td>–</td>
</tr>
<tr>
<td>Allowed Slot Format Information</td>
<td>O..&lt;maxno ofSlotFormatsPRACH &gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>RACH Slot Format</td>
<td>M</td>
<td>9.2.2.37</td>
<td>–</td>
</tr>
<tr>
<td>RACH Sub Channel Numbers</td>
<td>O</td>
<td>9.2.2.38</td>
<td>–</td>
</tr>
<tr>
<td>TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>YES</td>
</tr>
<tr>
<td>AICH Parameters</td>
<td>O..&lt;maxPRACHCell &gt;</td>
<td>GLOBAL</td>
<td>reject</td>
</tr>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td>–</td>
</tr>
<tr>
<td>AICH Power</td>
<td>O</td>
<td>9.2.2.D</td>
<td>–</td>
</tr>
</tbody>
</table>

>Not Used

 This choice shall not be used. Reject procedure if received.

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxFACHCell</td>
<td>Maximum number of FACHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxPRACHCell</td>
<td>Maximum number of PRACHs and AICHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxnoofSlotFormatsPRACH</td>
<td>Maximum number of SF for a PRACH</td>
</tr>
</tbody>
</table>

9.1.6.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Generation ID</td>
<td>M</td>
<td>9.2.1.16</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary CCPCH Parameters</td>
<td>0..1</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Type</td>
<td>Value</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>-------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td>For DL CCTrCH supporting one or several Secondary CCPCHs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary CCPCHs To Be Configured</td>
<td></td>
<td>0..&lt;maxno ofSCCPCH Hs&gt;</td>
<td>See note 1 below</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SCCPCH Power</td>
<td>O</td>
<td>DL power 9.2.1.21</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PICh Parameters</td>
<td></td>
<td>0..1</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PICh Power</td>
<td>O</td>
<td>9.2.1.49A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FACH Parameters</td>
<td></td>
<td>0..&lt;maxno ofFACHs&gt;</td>
<td>GLOBAL reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Transport Channel ID</td>
<td>M</td>
<td>9.2.1.14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWS</td>
<td>O</td>
<td>9.2.1.61</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWE</td>
<td>O</td>
<td>9.2.1.60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Max FACH Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer reconfiguration with ALCAP.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCH Parameters</td>
<td></td>
<td>0..1</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Transport Channel ID</td>
<td>M</td>
<td>9.2.1.14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWS</td>
<td>O</td>
<td>9.2.1.61</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWE</td>
<td>O</td>
<td>9.2.1.60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PCH Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer reconfiguration with ALCAP.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPACH Parameters</td>
<td></td>
<td>0..1</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Max FPACH Power</td>
<td>O</td>
<td>9.2.3.5E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICH Parameters</td>
<td></td>
<td>0..1</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MICH Power</td>
<td>O</td>
<td>PICH Power 9.2.1.49A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLCCH Parameters</td>
<td></td>
<td>0..1</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1: See the note related to the configuration of Secondary CCPCHs.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Default Value</th>
<th>Description</th>
<th>Applicable to</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;Max PLCCCH Power</td>
<td>O</td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td>YES</td>
</tr>
<tr>
<td>Secondary CCPCH Parameters 7.68Mcps</td>
<td>0..1</td>
<td>Applicable to 7.68 Mcps TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td>For DL CCTrCH supporting one or several Secondary CCPCHs</td>
<td></td>
</tr>
<tr>
<td>&gt;Secondary CCPCHs To Be Configured</td>
<td>0..&lt;maxno of SCCPCHs 768&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Common Physical Channel ID 7.68Mcps</td>
<td>M</td>
<td>9.2.3.33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SCCPCH Power</td>
<td>O</td>
<td>DL power</td>
<td>9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>PICH Parameters 7.68Mcps</td>
<td>0..1</td>
<td>Applicable to 7.68 Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID 7.68Mcps</td>
<td>M</td>
<td>9.2.3.33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PICH Power</td>
<td>O</td>
<td>9.2.1.49A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICH Parameters 7.68Mcps</td>
<td>0..1</td>
<td>Applicable to 7.68 Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID 7.68Mcps</td>
<td>M</td>
<td>9.2.3.33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MICH Power</td>
<td>O</td>
<td>PICH Power</td>
<td>9.2.1.49A</td>
<td></td>
</tr>
<tr>
<td>UpPCH Parameters</td>
<td>0..1</td>
<td>Applicable to 1.28 Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;UpPCH Position LCR</td>
<td>O</td>
<td>9.2.3.4Q</td>
<td>This position of UpPCH. For a multi-frequency cell, if this IE is not included in this message, UpPCH in secondary frequency indicated by &quot;UARFCN&quot; shall be deleted.</td>
<td></td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Mandatory for 1.28 Mcps TDD when using multiple frequencies. Corresponds to Nt [15].</td>
<td></td>
</tr>
</tbody>
</table>

NOTE 1: This information element is a simplified representation of the ASN.1. Repetitions 1 to 8 and repetitions 9 to maxnoofSCCPCHs are represented by separate ASN.1 structures. Furthermore, maxnoofSCCPCHs has different values in the ASN.1 for each of the two TDD options.
<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofSCCPCHs</td>
<td>Maximum number of SCCPCHs that can be repeated in a Cell</td>
</tr>
<tr>
<td>maxnoofFACHs</td>
<td>Maximum number of FACHs that can be repeated in a Cell</td>
</tr>
<tr>
<td>maxnoofSCCPCHs768</td>
<td>Maximum number of SCCPCHs that can be repeated in a Cell at 7.68Mcps</td>
</tr>
</tbody>
</table>

### 9.1.7 COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.8 COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## 9.1.9 COMMON TRANSPORT CHANNEL DELETION REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td>Indicates the Common Physical Channel for which the Common Transport Channels (together with the Common Physical Channel) shall be deleted.</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration Generation ID</td>
<td>M</td>
<td>9.2.1.16</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Physical Channel ID 7.68Mcps</td>
<td>O</td>
<td>9.2.3.33</td>
<td>Included at 7.68 Mcps when the physical channel ID exceeds the range of &quot;Common Physical Channel ID&quot;</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 9.1.10 COMMON TRANSPORT CHANNEL DELETION RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 9.1.11 BLOCK RESOURCE REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blocking Priority Indicator</td>
<td>M</td>
<td>9.2.1.5</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shutdown Timer</td>
<td>C-BlockNormal</td>
<td>9.2.1.56</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.12 BLOCK RESOURCE RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

**Condition**

| BlockNormal                  | The IE shall be present if the *Blocking Priority Indicator* IE indicates "Normal Priority". |

### 9.1.13 BLOCK RESOURCE FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.14 UNBLOCK RESOURCE INDICATION

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.15 AUDIT REQUIRED INDICATION

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## 9.1.16 AUDIT REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.56B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start Of Audit Sequence</td>
<td>M</td>
<td></td>
<td>9.2.1.56B</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.17 AUDIT RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>--</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>End Of Audit Sequence Indicator</td>
<td>M</td>
<td>9.2.1.29A</td>
<td>YES</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cell Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td></td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Configuration Generation ID</td>
<td>M</td>
<td>9.2.1.16</td>
<td></td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Resource Operational State</td>
<td>M</td>
<td>9.2.1.52</td>
<td></td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Availability Status</td>
<td>M</td>
<td>9.2.1.2</td>
<td></td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Local Cell ID</td>
<td>M</td>
<td>9.2.1.38</td>
<td>The local cell that the cell is configured on</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Primary SCH Information</td>
<td>O</td>
<td></td>
<td></td>
<td>Applicable to FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Secondary SCH Information</td>
<td>O</td>
<td></td>
<td></td>
<td>Applicable to FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Primary CPICH Information</td>
<td>O</td>
<td></td>
<td></td>
<td>Applicable to FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Secondary CPICH Information</td>
<td>O</td>
<td></td>
<td></td>
<td>Applicable to FDD only</td>
<td>EACH</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;Secondary CPICH Individual Information</td>
<td>M</td>
<td></td>
<td></td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Primary CCPCH Information</td>
<td>O</td>
<td></td>
<td></td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;BCH Information</td>
<td>O</td>
<td></td>
<td></td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>Information</td>
<td>0..&lt;maxSCCPCHCell&gt;</td>
<td>See note 1 below</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------</td>
<td>--------------------</td>
<td>------------------</td>
<td>------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Secondary CCPCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Secondary CCPCH Individual Information</td>
<td>M</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PCH Information</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PICH Information</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;FACH Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;FACH Individual Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PRACH Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;PRACH Individual Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RACH Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;RACH Individual Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;AICH Information</td>
<td></td>
<td>Applicable to FDD only</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;AICH Individual Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Not Used 1</td>
<td></td>
<td>NULL</td>
<td>This item shall not be used. Ignore if received.</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Not Used 2</td>
<td></td>
<td>NULL</td>
<td>This item shall</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Item</td>
<td>Occurrence</td>
<td>Value</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>------------</td>
<td>-------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCH Information</td>
<td>O</td>
<td>NULL</td>
<td>This item shall not be used. Ignore if received.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPACH Information</td>
<td>0..&lt;maxFPACHCell&gt;</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DwPCH Information</td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Resources Information</td>
<td>0..&lt;maxFrequencyinCell&gt;</td>
<td>See note 2 below</td>
<td>EACH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource Operational State</td>
<td>M</td>
<td>9.2.1.52</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Availability Status</td>
<td>M</td>
<td>9.2.1.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Applicable to 1.28Mcps TDD when using multiple frequencies.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICH Information</td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>YES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Resources Information</td>
<td>0..&lt;maxFrequencyinCell&gt;</td>
<td>See note 2 below</td>
<td>EACH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource Operational State</td>
<td>M</td>
<td>9.2.1.52</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Availability Status</td>
<td>M</td>
<td>9.2.1.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Applicable to 1.28Mcps</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
- Not Used 3: This item shall not be used. Ignore if received.
- Not Used 4: This item shall not be used. Ignore if received.
- FPACH Information: Applicable to 1.28Mcps TDD only.
- DwPCH Information: Applicable to 1.28Mcps TDD only.
- HS-DSCH Resources Information: See note 2 below.
- Resource Operational State: Applicable to 1.28Mcps TDD only.
- Availability Status: Applicable to 1.28Mcps TDD only.
<table>
<thead>
<tr>
<th>Information Type</th>
<th>Frequency</th>
<th>Immediate Description</th>
<th>Applicable to</th>
<th>Ignored</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;PLCCH Information</td>
<td>0..&lt;maxPL_CCHCell&gt;</td>
<td>TDD when using multiple frequencies.</td>
<td>EACH</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;PLCCH Individual Information</td>
<td>M</td>
<td>Common Physical Channel Status Information</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>&gt;Primary CCPCH Information</td>
<td>O</td>
<td>Common Physical Channel Status Information</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>7.68Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Primary CCPCH Individual</td>
<td>M</td>
<td>Common Physical Channel Status Information</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>Information 7.68 Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Secondary CCPCH Information</td>
<td>0..&lt;maxS_CCPCHCell&gt;</td>
<td>TDD when using multiple frequencies.</td>
<td>EACH</td>
<td>ignore</td>
</tr>
<tr>
<td>7.68Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Secondary CCPCH Individual</td>
<td>M</td>
<td>Common Physical Channel Status Information</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>Information 7.68 Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PICH Information</td>
<td>O</td>
<td>Common Physical Channel Status Information</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>7.68Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;PICH Individual Information</td>
<td>M</td>
<td>Common Physical Channel Status Information</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>7.68Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SCH Information</td>
<td>O</td>
<td>Common Physical Channel Status Information</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>7.68Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MICH Information</td>
<td>O</td>
<td>Common Physical Channel Status Information</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>7.68Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RUCCH Information</td>
<td>0..&lt;maxE-RUCCHCell&gt;</td>
<td>TDD when using multiple frequencies.</td>
<td>EACH</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;E-RUCCH Individual Information</td>
<td>M</td>
<td>Common Physical Channel Status Information</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>
>E-RUCCH Information 7.68Mcps

|   |   | Physical Channel Status Information 9.2.1.13A | 7.68Mcps TDD only | EACH | ignore |

>>E-RUCCH Individual Information 7.68Mcps

| M | Common Physical Channel Status Information 7.68 Mcps 9.2.3.36 |   |   | -- |

>UARFCN Information LCR

|   |   | 0..<maxFr equencyin Cell> | Applicable to 1.28Mcps TDD when using multiple frequencies. | EACH | ignore |

>>UARFCN

| M | 9.2.1.65 | Corresponds to Nt [15] | -- |

>>Resource Operational State

| M | 9.2.1.52 | -- |

>>Availability Status

| M | 9.2.1.2 | -- |

>UpPCH Information LCR

|   |   | 0..<maxFr equencyin Cell> | Applicable to 1.28Mcps TDD only. | EACH | ignore |

>>UARFCN

| O | 9.2.1.65 | Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to Nt [15] | -- |

>>UpPCH Position LCR

| M | 9.2.3.4Q | -- |

>>Resource Operational State

| M | 9.2.1.52 | -- |

>>Availability Status

| M | 9.2.1.2 | -- |

Communication Control Port Information

|   |   | 0..<maxC CPinNode B> | EACH | ignore |

>Communication Control Port ID

| M | 9.2.1.15 | -- |

>Resource Operational State

| M | 9.2.1.52 | -- |

>Availability Status

| M | 9.2.1.2 | -- |

Local Cell Information

|   |   | 0..<maxLo calCellinN ode B> | EACH | ignore |

>Local Cell ID

| M | 9.2.1.38 | -- |

>DL Or Global Capacity Credit

| M | 9.2.1.20B | -- |

>UL Capacity Credit

| O | 9.2.1.65A | -- |

>Common Channels Capacity Consumption Law

| M | 9.2.1.9A | -- |

>Dedicated Channels Capacity Consumption Law

<p>| M | 9.2.1.20A | -- |</p>
<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum DL Power Capability</td>
<td>O</td>
<td>9.2.1.39</td>
<td></td>
</tr>
<tr>
<td>Minimum Spreading Factor</td>
<td>O</td>
<td>9.2.1.47</td>
<td></td>
</tr>
<tr>
<td>Minimum DL Power Capability</td>
<td>O</td>
<td>9.2.1.46A</td>
<td></td>
</tr>
<tr>
<td>Local Cell Group ID</td>
<td>O</td>
<td>9.2.1.37A</td>
<td></td>
</tr>
<tr>
<td>Reference Clock Availability</td>
<td>O</td>
<td>9.2.3.14A</td>
<td>TDD only</td>
</tr>
<tr>
<td>Power Local Cell Group ID</td>
<td>O</td>
<td>9.2.1.49B</td>
<td>YES ignore</td>
</tr>
<tr>
<td>HSDPDA Capability</td>
<td>O</td>
<td>9.2.1.31Ga</td>
<td>YES ignore</td>
</tr>
<tr>
<td>E-DCH Capability</td>
<td>O</td>
<td>9.2.1.70</td>
<td>YES ignore</td>
</tr>
<tr>
<td>E-DCH TTI2ms Capability</td>
<td>C</td>
<td>9.2.2.13V</td>
<td>FDD only</td>
</tr>
<tr>
<td>E-DCH SF Capability</td>
<td>C</td>
<td>9.2.2.13W</td>
<td>FDD only</td>
</tr>
<tr>
<td>E-DCH HARCQ Combining Capability</td>
<td>C</td>
<td>9.2.2.13X</td>
<td>FDD only</td>
</tr>
<tr>
<td>E-DCH Capacity Consumption Law</td>
<td>O</td>
<td>9.2.2.13Ja</td>
<td>FDD only</td>
</tr>
<tr>
<td>E-DCH TDD Capacity Consumption Law</td>
<td>O</td>
<td>9.2.2.64</td>
<td>FDD only</td>
</tr>
<tr>
<td>Continuous Packet Connectivity DTX-DRX Capability</td>
<td>O</td>
<td>9.2.2.65</td>
<td>FDD only</td>
</tr>
<tr>
<td>Max UE DTX Cycle</td>
<td>C</td>
<td>9.2.2.95</td>
<td>FDD only</td>
</tr>
<tr>
<td>MIMO Capability</td>
<td>O</td>
<td>9.2.1.118</td>
<td>FDD and 1.28Mcps TDD only</td>
</tr>
<tr>
<td>SixtyfourQAM DL Capability</td>
<td>O</td>
<td>9.2.1.110</td>
<td>FDD and 1.28Mcps TDD only</td>
</tr>
<tr>
<td>MBMS Capability</td>
<td>O</td>
<td>9.2.1.86</td>
<td>YES ignore</td>
</tr>
<tr>
<td>Enhanced FACH Capability</td>
<td>O</td>
<td>9.2.1.114</td>
<td>FDD and 1.28Mcps TDD only</td>
</tr>
<tr>
<td>Enhanced PCH Capability</td>
<td>C</td>
<td>9.2.1.115</td>
<td>FDD and 1.28Mcps TDD only</td>
</tr>
<tr>
<td>SixteenQAM UL Capability</td>
<td>O</td>
<td>9.2.2.88</td>
<td>FDD only</td>
</tr>
<tr>
<td>HS-DSCH MAC-d PDU Size Capability</td>
<td>O</td>
<td>9.2.1.31IC</td>
<td>YES ignore</td>
</tr>
<tr>
<td>MBSFN Only Mode Capability</td>
<td>O</td>
<td>9.2.3.71</td>
<td>1.28Mcps TDD only</td>
</tr>
<tr>
<td>DPCCH Slot Format Capability</td>
<td>O</td>
<td>9.2.2.94</td>
<td>FDD only</td>
</tr>
<tr>
<td>E-DCH MAC-d PDU Size Capability</td>
<td>O</td>
<td>9.2.1.74A</td>
<td>YES ignore</td>
</tr>
<tr>
<td>Common E-DCH Capability</td>
<td>O</td>
<td>9.2.2.101</td>
<td>FDD only</td>
</tr>
<tr>
<td>E-AI Capability</td>
<td>C</td>
<td>9.2.2.102</td>
<td>YES ignore</td>
</tr>
<tr>
<td>Enhanced UE DRX Capability</td>
<td>O</td>
<td>9.2.1.116</td>
<td>YES ignore</td>
</tr>
<tr>
<td>Enhanced UE DRX</td>
<td>O</td>
<td>9.2.1.116</td>
<td>1.28Mcps</td>
</tr>
</tbody>
</table>

**Note:** YES, NO, ignore are used to indicate the status of each feature.
<table>
<thead>
<tr>
<th>Capability LCR</th>
<th></th>
<th>TDD only</th>
<th></th>
<th>YES</th>
<th>ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;E-DPCCH Power Boosting</td>
<td>O</td>
<td>9.2.2.109</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Capability</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SixtyfourQAM DL and</td>
<td>O</td>
<td>9.2.1.121</td>
<td>FDD and</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>MIMO Combined Capability LCR</td>
<td></td>
<td></td>
<td>1.28Mcps TDD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Multi Cell Capability Info</td>
<td>O</td>
<td>9.2.2.113</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Semi-Persistent</td>
<td>O</td>
<td>9.2.3.91</td>
<td>1.28Mcps TDD</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>scheduling Capability LCR</td>
<td></td>
<td></td>
<td>only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Continuous Packet</td>
<td>O</td>
<td>9.2.3.92</td>
<td>1.28Mcps TDD</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Connectivity DRX Capability LCR</td>
<td></td>
<td></td>
<td>only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common E-DCH HS-DPCCH</td>
<td>O</td>
<td>9.2.116</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
</tr>
<tr>
<td>Capability</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MIMO Power Offset For S-</td>
<td>O</td>
<td>9.2.2.118</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>CPICH Capability</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TX Diversity on DL Control</td>
<td>O</td>
<td>9.2.2.121</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Channels by MIMO UE Capability</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Single Stream MIMO</td>
<td>O</td>
<td>9.2.2.122</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
</tr>
<tr>
<td>Capability</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Dual Band Capability Info</td>
<td>O</td>
<td>9.2.2.125</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Cell Portion Capability LCR</td>
<td>O</td>
<td>9.2.3.106</td>
<td>1.28Mcps TDD</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Cell Capability Container</td>
<td>O</td>
<td>9.2.2.129</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;TS0 Capability LCR</td>
<td>O</td>
<td>9.2.3.109</td>
<td>1.28Mcps TDD</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Precoding Weight Set</td>
<td>O</td>
<td>9.2.2.143</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Restriction</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Adaptive Special Burst</td>
<td>O</td>
<td>9.2.3.112</td>
<td>1.28Mcps TDD</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Power Capability LCR</td>
<td></td>
<td></td>
<td>only</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Local Cell Group Information**

<table>
<thead>
<tr>
<th></th>
<th>0..&lt;maxLocalCellinNode B&gt;</th>
<th>EACH</th>
<th>ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;Local Cell Group ID</td>
<td>M</td>
<td>9.2.1.37A</td>
<td>—</td>
</tr>
<tr>
<td>&gt;DL Or Global Capacity Credit</td>
<td>M</td>
<td>9.2.1.20B</td>
<td>—</td>
</tr>
<tr>
<td>&gt;UL Capacity Credit</td>
<td>O</td>
<td>9.2.1.65A</td>
<td>—</td>
</tr>
<tr>
<td>&gt;Common Channels Capacity Consumption Law</td>
<td>M</td>
<td>9.2.1.9A</td>
<td>—</td>
</tr>
<tr>
<td>&gt;Dedicated Channels Capacity Consumption Law</td>
<td>M</td>
<td>9.2.1.20A</td>
<td>—</td>
</tr>
<tr>
<td>&gt;E-DCH Capacity Consumption Law</td>
<td>O</td>
<td>9.2.2.13Ja</td>
<td>FDD only</td>
</tr>
<tr>
<td>&gt;E-DCH TDD Capacity Consumption Law</td>
<td>O</td>
<td>9.2.3.60</td>
<td>TDD only</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
</tr>
</tbody>
</table>

**Power Local Cell Group Information**

<table>
<thead>
<tr>
<th></th>
<th>0..&lt;maxLocalCellinNode B&gt;</th>
<th>EACH</th>
<th>ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;Power Local Cell Group ID</td>
<td>M</td>
<td>9.2.1.49B</td>
<td>—</td>
</tr>
<tr>
<td>&gt;Maximum DL Power Capability</td>
<td>M</td>
<td>9.2.1.39</td>
<td>—</td>
</tr>
</tbody>
</table>

**NOTE 1:** This information element is a simplified representation of the ASN.1. [TDD - Repetitions 1 to 8 and repetitions 9 to maxSCCPCHCell are represented by separate ASN.1 structures.] Furthermore, maxSCCPCHCell has different values in the ASN.1 for FDD and for each of the two TDD options.

**NOTE 2:** For 1.28Mcps TDD when using multiple frequencies, this information element for Repetition 1 and repetition 2 through maxFrequencyinCell are represented by respective ASN.1 structures with different criticalities.
<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCHCapability</td>
<td>The IE shall be present if the E-DCH Capability IE is set to “E-DCH Capable”.</td>
</tr>
<tr>
<td>EnhancedFACHCapability</td>
<td>The IE shall be present if the Enhanced FACH Capability IE is set to “Enhanced FACH Capable”.</td>
</tr>
<tr>
<td>DTX-DRXCapability</td>
<td>The IE shall be present if the Continuous Packet Connectivity DTX-DRX Capability IE is set to “Continuous Packet Connectivity DTX-DRX Capable”.</td>
</tr>
<tr>
<td>CommonEDCHCapability</td>
<td>The IE shall be present if the Common E-DCH Capability IE is set to “Common E-DCH Capable”.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxCellinNode B</td>
<td>Maximum number of Cells that can be configured in Node B</td>
</tr>
<tr>
<td>maxCCPinNode B</td>
<td>Maximum number of Communication Control Ports that can exist in the Node B</td>
</tr>
<tr>
<td>maxLocalCellinNode B</td>
<td>Maximum number of Local Cells that can exist in the Node B</td>
</tr>
<tr>
<td>maxSCPICHCell</td>
<td>Maximum number of Secondary CPICHs that can be defined in a Cell.</td>
</tr>
<tr>
<td>maxSCCPCHCell</td>
<td>Maximum number of Secondary CCPCHs that can be defined in a Cell.</td>
</tr>
<tr>
<td>maxSCCPCHCell768</td>
<td>Maximum number of Secondary CCPCHs that can be defined in a Cell for 7.68 Mcps TDD.</td>
</tr>
<tr>
<td>maxFACHCell</td>
<td>Maximum number of FACHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxRACHCell</td>
<td>Maximum number of PRACHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxFPACHCell</td>
<td>Maximum number of RACHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxPLCCHCell</td>
<td>Maximum number of FPACHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxE-RUCCHCell</td>
<td>Maximum number of E-RUCCHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxFrequencyinCell</td>
<td>Maximum number of Frequencies that can be defined in a Cell</td>
</tr>
</tbody>
</table>

### 9.1.17A AUDIT FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td>–</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.16</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>Criticality diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
</tbody>
</table>
### 9.1.18 COMMON MEASUREMENT INITIATION REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td>9.2.1.42</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Common Measurement Object Type</td>
<td>M</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>O</td>
<td>9.2.3.23</td>
<td></td>
<td>Applicable to 3.84Mcps TDD and 7.68Mcps TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot LCR</td>
<td>O</td>
<td>9.2.3.24A</td>
<td></td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Neighbouring Cell Measurement Information</td>
<td>0..&lt;maxno MeasNCells</td>
<td>GLOBAL</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;CHOICE Neighbouring Cell Measurement Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Neighbouring FDD Cell Measurement Information</td>
<td></td>
<td></td>
<td>FDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Neighbouring TDD Cell Measurement Information</td>
<td>M</td>
<td>9.2.1.47C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Neighbouring TDD Cell Measurement Information</td>
<td>M</td>
<td>9.2.1.47D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Additional Neighbouring Cell Measurement Information</td>
<td></td>
<td></td>
<td>See Note 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Neighbouring TDD Cell Measurement Information LCR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Neighbouring TDD Cell Measurement Information 768Mcps</td>
<td>M</td>
<td>9.2.3.37</td>
<td></td>
<td>Applicable for 1.28 Mcps TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td></td>
<td>Applicable for 1.28 Mcps TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Type</td>
<td>3GPP TS 25.433 v9.5.0 Release 9</td>
<td>ETSI TS 125 433 v9.5.0 (2011-03)</td>
<td>Applicable to</td>
<td>YES/NO</td>
<td>Action</td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>-------------------------------</td>
<td>-------------------------------</td>
<td>---------------</td>
<td>--------</td>
<td>--------</td>
</tr>
<tr>
<td>UpPCH Position LCR</td>
<td>O</td>
<td>9.2.3.4Q</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Time Slot LCR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot Initiated LCR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RACH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Transport Channel ID</td>
<td>M</td>
<td>9.2.1.14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Local Cell Group</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Local Cell Group ID</td>
<td>M</td>
<td>9.2.1.49B</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH RACH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Measurement Type</td>
<td>M</td>
<td>9.2.1.11</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement Filter Coefficient</td>
<td>O</td>
<td>9.2.1.41</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Report Characteristics</td>
<td>M</td>
<td>9.2.1.51</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFN Reporting Indicator</td>
<td>M</td>
<td>FN Reporting Indicator 9.2.1.29B</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFN</td>
<td>O</td>
<td>9.2.1.53A</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Measurement Accuracy</td>
<td>O</td>
<td>9.2.1.9B</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement Recovery Behavior</td>
<td>O</td>
<td>9.2.1.43A</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTWP* Reporting Indicator</td>
<td>O</td>
<td>9.2.1.53b</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTWP* for Cell Portion Reporting Indicator</td>
<td>O</td>
<td>9.2.1.53c</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference Received Total Wide Band Power Reporting</td>
<td>O</td>
<td>9.2.2.39C</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>GANSS Time ID</td>
<td>O</td>
<td>9.2.1.104a</td>
<td>This IE may only be present if the Common Measurement Type IE is set</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
If the **Common Measurement Type** IE is set to "UTRAN GANSS Timing of Cell Frames for UE Positioning" and this IE is absent, the GANSS time is Galileo system time.

**NOTE 1:** This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>maxnoMeasNCells</code></td>
<td>Maximum number of neighbouring cells that can be measured on.</td>
</tr>
<tr>
<td><code>maxFrequencyinCell - 1</code></td>
<td>Maximum number of frequencies that can be used in the cell minus 1.</td>
</tr>
</tbody>
</table>
### 9.1.19 COMMON MEASUREMENT INITIATION RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td>9.2.1.42</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Common Measurement Object Type</td>
<td></td>
<td></td>
<td></td>
<td>Common Measurement Object Type that the measurement was initiated with.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Cell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Common Measurement Value</td>
<td>M</td>
<td>9.2.1.12</td>
<td></td>
<td>For 1.28Mcps TDD, if the IE Additional Measurement Value is present, this IE shall be ignored.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Additional Measurement Value</td>
<td></td>
<td></td>
<td>0..&lt;maxFrequencyinCell&gt;</td>
<td>Applicable to 1.28Mcps TDD only. If more than one measurement value needs to be reported, this IE shall be used.</td>
<td>GLOBAL</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Time Slot Measurement Value LCR</td>
<td></td>
<td>1..6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td>The IE shall be ignored if the Measurement Type is frequency level.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Common Measurement Value</td>
<td>M</td>
<td>9.2.1.12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RACH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Common Measurement Value</td>
<td>M</td>
<td>9.2.1.12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Not Used</td>
<td></td>
<td>NULL</td>
<td></td>
<td>This choice shall not be used.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Additional Common Measurement Object Types</td>
<td></td>
<td></td>
<td></td>
<td>See Note 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Power Local Cell Group</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common Measurement Value</td>
<td>M</td>
<td>9.2.1.12</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;E-DCH RACH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common Measurement Value</td>
<td>M</td>
<td>9.2.1.12</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFN</td>
<td>O</td>
<td>9.2.1.53A</td>
<td></td>
<td>Common Measurement Time Reference</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Measurement Achieved Accuracy</td>
<td>O</td>
<td>Common Measureme</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement Recovery Support Indicator</td>
<td>O</td>
<td>9.2.1.43C</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>---------</td>
<td>-----------</td>
<td>-----</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference Received Total Wide Band Power Support Indicator</td>
<td>O</td>
<td>9.2.2.39D</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Reference Received Total Wide Band Power</td>
<td>O</td>
<td>9.2.2.39B</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

NOTE 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxFrequencyInCell</td>
<td>Maximum number of Frequencies that can be defined in a Cell.</td>
</tr>
</tbody>
</table>

### 9.1.20 COMMON MEASUREMENT INITIATION FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td></td>
<td>9.2.1.42</td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
</tbody>
</table>
# 9.1.21 COMMON MEASUREMENT REPORT

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td>9.2.1.42</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Common Measurement Object Type</td>
<td>M</td>
<td>9.2.1.42</td>
<td>Common Measurement Object Type that the measurement was initiated with.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

- **Cell**

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;Common Measurement Value Information</td>
<td>M</td>
<td>9.2.1.12A</td>
<td>For 1.28Mcps TDD, if the IE Additional Measurement Value is present, this IE shall be ignored.</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;C-ID</td>
<td>O</td>
<td>9.2.1.9</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Additional Measurement Value Information</td>
<td>0..&lt;maxFrequencyinCell&gt;</td>
<td>9.2.1.9</td>
<td>Applicable to 1.28Mcps TDD only. If more than one measurement value needs to be reported, this IE shall be used.</td>
<td>GLOBAL</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;&gt;UARFCN</td>
<td></td>
<td>9.2.1.65</td>
<td>–</td>
<td>–</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot Measurement Value</td>
<td></td>
<td>1..6</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td>The IE shall be ignored if the Measurement Type is frequency level.</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Common Measurement Value Information</td>
<td>M</td>
<td>9.2.1.12A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RACH</td>
<td></td>
<td></td>
<td>FDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Common Measurement Value Information</td>
<td>M</td>
<td>9.2.1.12A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;C-ID</td>
<td>O</td>
<td>9.2.1.9</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Not Used</td>
<td>NULL</td>
<td></td>
<td>This choice shall not be used.</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Additional Common Measurement Object Types</td>
<td></td>
<td></td>
<td>See Note 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Power Local Cell Group</td>
<td></td>
<td></td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Common Measurement Value Information</td>
<td>M</td>
<td>9.2.1.12A</td>
<td>YES</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;E-DCH RACH</td>
<td></td>
<td></td>
<td>FDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common Measurement Value Information</td>
<td>M</td>
<td>9.2.1.12A</td>
<td>YES</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFN</td>
<td>O</td>
<td>9.2.1.53A</td>
<td>Common</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
### Measurement Recovery Reporting Indicator

| O | 9.2.1.43B | YES | ignore |

**Reference Received Total Wide Band Power**

| O | 9.2.2.39B | FDD only | YES | ignore |

**NOTE 1**: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.

<table>
<thead>
<tr>
<th><strong>maxFrequencyInCell</strong></th>
<th><strong>Explanation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum number of Frequencies that can be defined in a Cell.</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.1.22 COMMON MEASUREMENT TERMINATION REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td>9.2.1.42</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 9.1.23 COMMON MEASUREMENT FAILURE INDICATION

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td>9.2.1.42</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 9.1.24 CELL SETUP REQUEST

**9.1.24.1** FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local Cell ID</td>
<td>M</td>
<td>9.2.1.38</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Generation ID</td>
<td>M</td>
<td>9.2.1.16</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T Cell</td>
<td>M</td>
<td>9.2.2.49</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td>Corresponds to Nu [14]</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td>Corresponds to Nd [14]</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Value</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>----------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Transmission Power</td>
<td>M 9.2.1.40 YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Closed Loop Timing Adjustment Mode</td>
<td>O 9.2.2.2A YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary Scrambling Code</td>
<td>M 9.2.2.34 YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Synchronisation Configuration</td>
<td>1 YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; N_INSync_IND</td>
<td>M 9.2.1.47A –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; N_OUTSync_IND</td>
<td>M 9.2.1.47B –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; T_RLFailure</td>
<td>M 9.2.1.56A –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DL TPC Pattern 01 Count</td>
<td>M 9.2.2.13A YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary SCH Information</td>
<td>1 YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Common Physical Channel ID</td>
<td>M 9.2.1.13 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Primary SCH Power</td>
<td>M DL Power 9.2.1.21 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; TSTD Indicator</td>
<td>M 9.2.1.64 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary SCH Information</td>
<td>1 YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Common Physical Channel ID</td>
<td>M 9.2.1.13 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Secondary SCH Power</td>
<td>M DL Power 9.2.1.21 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; TSTD Indicator</td>
<td>M 9.2.1.64 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary CPICH Information</td>
<td>1 YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Common Physical Channel ID</td>
<td>M 9.2.1.13 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Primary CPICH power</td>
<td>M 9.2.2.33 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Transmit Diversity Indicator</td>
<td>M 9.2.2.53 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary CPICH Information</td>
<td>0..&lt;maxS_CPICHCell EACH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Common Physical Channel ID</td>
<td>M 9.2.1.13 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; DL Scrambling Code</td>
<td>M 9.2.2.13 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; FDD DL Channelisation Code Number</td>
<td>M 9.2.2.14 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Secondary CPICH Power</td>
<td>M DL Power 9.2.1.21 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Transmit Diversity Indicator</td>
<td>M 9.2.2.53 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary CCPCH Information</td>
<td>1 YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Common Physical Channel ID</td>
<td>M 9.2.1.13 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; BCH Information</td>
<td>1 YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Common Transport Channel ID</td>
<td>M 9.2.1.14 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; BCH Power</td>
<td>M DL Power 9.2.1.21 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; STTD Indicator</td>
<td>M 9.2.2.48 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limited Power Increase Information</td>
<td>1 YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Power_Raise_Limit</td>
<td>M 9.2.2.29A –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; DL_power_averaging_window_size</td>
<td>M 9.2.2.12A –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IPDL Parameter Information</td>
<td>0..1 YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; IPDL FDD Parameters</td>
<td>M 9.2.2.18C –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; IPDL Indicator</td>
<td>M 9.2.1.36F –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Portion Information</td>
<td>0..&lt;maxno_ofCellPortions EACH reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Cell Portion ID</td>
<td>M 9.2.2.1Ca –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Associated Secondary CPICH</td>
<td>M Common Physical Channel ID 9.2.1.13 –</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>M</td>
<td>Maximum Transmission Power for Cell Portion</td>
<td>9.2.1.40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------</td>
<td>---------</td>
<td>--------------------------------------------</td>
<td>----------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMO Pilot Configuration</td>
<td>O</td>
<td>9.2.2.73</td>
<td>YES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMO Pilot Configuration</td>
<td>O</td>
<td>9.2.2.120</td>
<td>YES</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxSCPICHCell</td>
<td>Maximum number of Secondary CPICHs that can be defined in a Cell.</td>
</tr>
<tr>
<td>MaxNoofCellPortions</td>
<td>Maximum number of Cell Portions in a cell</td>
</tr>
</tbody>
</table>
### 9.1.24.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local Cell ID</td>
<td>M</td>
<td></td>
<td>9.2.1.38</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Generation Id</td>
<td>M</td>
<td></td>
<td>9.2.1.16</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>Cell Parameter ID</td>
<td>M</td>
<td>9.2.3.4</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>Maximum Transmission Power</td>
<td>M</td>
<td></td>
<td>9.2.1.40</td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>Transmission Diversity Applied</td>
<td>M</td>
<td></td>
<td>9.2.3.26</td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>Sync Case</td>
<td>M</td>
<td></td>
<td>9.2.3.18</td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td><strong>Synchronisation Configuration</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; N_INSINC_IND</td>
<td>M</td>
<td>9.2.1.47A</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt; N_OUTSYNC_IND</td>
<td>M</td>
<td>9.2.1.47B</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt; T_RLFAILURE</td>
<td>M</td>
<td>9.2.1.56A</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>DPCH Constant Value</td>
<td>M</td>
<td></td>
<td>Constant Value 9.2.3.4A</td>
<td>This IE shall be ignored by the Node B.</td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>PUSCH Constant Value</td>
<td>M</td>
<td></td>
<td>Constant Value 9.2.3.4A</td>
<td>This IE shall be ignored by the Node B.</td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>PRACH Constant Value</td>
<td>M</td>
<td></td>
<td>Constant Value 9.2.3.4A</td>
<td>This IE shall be ignored by the Node B.</td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>Timing Advance Applied</td>
<td>M</td>
<td></td>
<td>9.2.3.22A</td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td><strong>SCH Information</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt; Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; CHOICE Sync Case</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Case 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Case 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; SCH Time Slot</td>
<td>M</td>
<td>9.2.3.17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Type</td>
<td>Description</td>
<td>3.84Mcps TDD</td>
<td>Applicability</td>
<td>1.28Mcps TDD</td>
<td>Applicability</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------------</td>
<td>--------------</td>
<td>-------------</td>
<td>--------------</td>
</tr>
<tr>
<td>SCH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSTD Indicator</td>
<td>M</td>
<td>9.2.1.64</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCCPCH Information</td>
<td></td>
<td>0.1</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCCPCH Power</td>
<td>M</td>
<td>9.2.3.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCTD Indicator</td>
<td>M</td>
<td>9.2.3.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot Configuration</td>
<td></td>
<td>0.15</td>
<td></td>
<td>GLOBAL reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot Status</td>
<td>M</td>
<td>9.2.3.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot Direction</td>
<td>M</td>
<td>9.2.3.24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBSFN Cell Parameter ID</td>
<td>O</td>
<td>Cell Parameter ID 9.2.3.4</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot Configuration LCR</td>
<td></td>
<td>0.7</td>
<td></td>
<td>GLOBAL reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot Status</td>
<td>M</td>
<td>9.2.3.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot Direction</td>
<td>M</td>
<td>9.2.3.24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot Parameter ID</td>
<td>O</td>
<td>Cell Parameter ID 9.2.3.4</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCCPCH Information LCR</td>
<td>0..1</td>
<td>Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, PCCPCH is deployed on the MBSFN Special Time Slot [19].</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>------</td>
<td>---------------------------------------------------------------------------------------------------------------</td>
<td>------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.20</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PCCPCH Power</td>
<td>M</td>
<td>9.2.3.9</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SCTD Indicator</td>
<td>M</td>
<td>9.2.3.30</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TSTD Indicator</td>
<td>M</td>
<td>9.2.1.64</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DwPCH Information</td>
<td>0..1</td>
<td>Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TSTD Indicator</td>
<td>M</td>
<td>9.2.1.64</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DwPCH Power</td>
<td>M</td>
<td>9.2.3.5B</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference SFN Offset</td>
<td>O</td>
<td>9.2.3.14B</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IPDL Parameter Information</td>
<td>0..1</td>
<td>Applicable to 3.84 Mcps TDD and 7.68 Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IPDL TDD Parameters</td>
<td>M</td>
<td>9.2.3.5D</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IPDL Indicator</td>
<td>M</td>
<td>9.2.1.36F</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IPDL Parameter Information LCR</td>
<td>0..1</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IPDL TDD Parameters LCR</td>
<td>M</td>
<td>9.2.3.5H</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IPDL Indicator</td>
<td>M</td>
<td>9.2.1.36F</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table Title</td>
<td>Parameter</td>
<td>Value</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>-----------</td>
<td>-------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCCPCH Information 7.68 Mcps TDD</td>
<td>0..1</td>
<td>9.2.3.33</td>
<td>Mandatory for 7.68 Mcps TDD. Not Applicable to 1.28 Mcps TDD or 3.84 Mcps TDD.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID 7.68 Mcps</td>
<td>M</td>
<td>9.2.3.33</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.20</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PCCPCH Power</td>
<td>M</td>
<td>9.2.3.9</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SCTD Indicator</td>
<td>M</td>
<td>9.2.3.30</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCH Information 7.68 Mcps TDD</td>
<td>0..1</td>
<td>9.2.3.33</td>
<td>Mandatory for 7.68 Mcps TDD. Not Applicable to 1.28 Mcps TDD or 3.84 Mcps TDD.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID 7.68 Mcps</td>
<td>M</td>
<td>9.2.3.33</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CHOICE Sync Case</td>
<td>M</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Case 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Case 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;SCH Time Slot</td>
<td>M</td>
<td>9.2.3.17</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SCH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TSTD Indicator</td>
<td>M</td>
<td>9.2.1.64</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBSFN Only Mode Indicator</td>
<td>O</td>
<td>9.2.3.70</td>
<td>Mandatory for 1.28 Mcps TDD when the cell is operating in MBSFN only mode. Not applicable to FDD, 3.84 Mcps TDD or 7.68 Mcps TDD.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UARFCN Information LCR</td>
<td>0..&lt;maxFreqencyinCell-1&gt;</td>
<td>9.2.1.65</td>
<td>Each</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot Configuration LCR</td>
<td>1..7</td>
<td></td>
<td>This IE indicates the Time Slot</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
configuration of a Secondary Frequency.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td></td>
<td>9.2.3.24A</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot Status</td>
<td>M</td>
<td></td>
<td>9.2.3.25</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot Direction</td>
<td>M</td>
<td></td>
<td>9.2.3.24</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot Parameter ID</td>
<td>O</td>
<td></td>
<td>Cell Parameter ID 9.2.3.4</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Range Bound | Explanation
---|-------------------
maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell

### 9.1.25 CELL SETUP RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.26 CELL SETUP FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## 9.1.27 CELL RECONFIGURATION REQUEST

### 9.1.27.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Generation ID</td>
<td>M</td>
<td></td>
<td>9.2.1.16</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Transmission Power</td>
<td>O</td>
<td></td>
<td>9.2.1.40</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Synchronisation Configuration</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;N_INSSYNC_IND</td>
<td>M</td>
<td></td>
<td>9.2.1.47A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;N_OUTSYNC_IND</td>
<td>M</td>
<td></td>
<td>9.2.1.47B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TRLFFAILREURE</td>
<td>M</td>
<td></td>
<td>9.2.1.56A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Primary SCH Information</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Primary SCH Power</td>
<td>M</td>
<td></td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Secondary SCH Information</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Secondary SCH Power</td>
<td>M</td>
<td></td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Primary CPICH Information</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Primary CPICH Power</td>
<td>M</td>
<td></td>
<td>9.2.2.33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Secondary CPICH Information</strong></td>
<td></td>
<td>0..&lt;maxS CPICHCell &gt;</td>
<td>EACH reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Secondary CPICH Power</td>
<td>M</td>
<td></td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Primary CCPICH Information</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;BCH Information</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Common Transport Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;BCH Power</td>
<td>M</td>
<td></td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>IPDL Parameter Information</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IPDL FDD Parameters</td>
<td>O</td>
<td></td>
<td>9.2.2.18C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IPDL Indicator</td>
<td>M</td>
<td></td>
<td>9.2.1.36F</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cell Portion Information</strong></td>
<td></td>
<td>0..&lt;maxno ofCellPortions&gt;</td>
<td>EACH reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell Portion ID</td>
<td>M</td>
<td></td>
<td>9.2.2.1Ca</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Transmission Power for Cell Portion</td>
<td>M</td>
<td></td>
<td>Maximum Transmission Power 9.2.1.40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMO Pilot Configuration</td>
<td>O</td>
<td></td>
<td>9.2.2.73</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMO Pilot Configuration Extension</td>
<td>O</td>
<td></td>
<td>9.2.2.120</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dormant Mode Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.124</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range Bound</td>
<td>Explanation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>---------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxSCPICHCell</td>
<td>Maximum number of Secondary CPICH that can be defined in a Cell.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.27.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Generation ID</td>
<td>M</td>
<td></td>
<td>9.2.1.16</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Synchronisation Configuration</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;N_INSYNC_IND</td>
<td>M</td>
<td></td>
<td>9.2.1.47A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;N_OUTSYNC_IND</td>
<td>M</td>
<td></td>
<td>9.2.1.47B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;T_RLFAILURE</td>
<td>M</td>
<td></td>
<td>9.2.1.56A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timing Advance Applied</td>
<td>O</td>
<td></td>
<td>9.2.3.22A</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SCH Information</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SCH Power</td>
<td>M</td>
<td></td>
<td>DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PCCPCH Information</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PCCPCH Power</td>
<td>M</td>
<td></td>
<td>9.2.3.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Transmission Power</td>
<td>O</td>
<td></td>
<td>9.2.1.40</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DPCH Constant Value</td>
<td>O</td>
<td></td>
<td>Constant Value 9.2.3.4A</td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>PUSCH Constant Value</td>
<td>O</td>
<td></td>
<td>Constant Value 9.2.3.4A</td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>PRACH Constant Value</td>
<td>O</td>
<td></td>
<td>Constant Value 9.2.3.4A</td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td><strong>Time Slot Configuration</strong></td>
<td></td>
<td>0..15</td>
<td></td>
<td></td>
<td>GLOBAL</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Time Slot</td>
<td>M</td>
<td></td>
<td>9.2.3.23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot Status</td>
<td>M</td>
<td></td>
<td>9.2.3.25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot Direction</td>
<td>M</td>
<td></td>
<td>9.2.3.24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MBSFN Cell Parameter ID</td>
<td>O</td>
<td></td>
<td>Cell Parameter ID 9.2.3.4</td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>Time Slot Configuration LCR</td>
<td>0..7</td>
<td>Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. If multiple frequencies exist within the cell indicated by C-ID, this IE indicates the Time Slot reconfiguration of Primary Frequency.</td>
<td>GLOBAL reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------</td>
<td>------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot LCR M</td>
<td>9.2.3.24A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot Status M</td>
<td>9.2.3.25</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot Direction M</td>
<td>9.2.3.24</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DwPCH Information 0..1</td>
<td>Applicable to 1.28Mcps TDD only.</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID M</td>
<td>9.2.1.13</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DwPCH Power M</td>
<td>9.2.3.5B</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IPDL Parameter Information 0..1</td>
<td>Applicable to 3.84Mcps TDD and 7.68Mcps TDD only</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IPDL TDD Parameters O</td>
<td>9.2.3.5D</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IPDL Indicator M</td>
<td>9.2.1.36F</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IPDL Parameter Information LCR 0..1</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IPDL TDD Parameters LCR O</td>
<td>9.2.3.5H</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IPDL Indicator M</td>
<td>9.2.1.36F</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCH Information 7.68Mcps 0..1</td>
<td>Applicable to 7.68Mcps TDD only</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID 7.68Mcps M</td>
<td>9.2.3.33</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SCH Power M</td>
<td>DL Power 9.2.1.21</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCCPCH Information 7.68Mcps 0..1</td>
<td>Applicable to 7.68Mcps TDD only</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID 7.68Mcps M</td>
<td>9.2.3.33</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PCCPCH Power M</td>
<td>9.2.3.9</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE UARFCN Adjustment O</td>
<td>Applicable to 1.28Mcps TDD when using multiple frequencies</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Add</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UARFCN Information To Add LCR 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UARFCN M</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] This IE indicates the frequency of a Secondary Frequency to add.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Time Slot Configuration LCR

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>1..7</td>
<td>9.2.3.24A</td>
<td>This IE indicates the Time Slot configuration of a Secondary Frequency to add.</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Time Slot Status</td>
<td>M</td>
<td></td>
<td>9.2.3.25</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Time Slot Direction</td>
<td>M</td>
<td></td>
<td>9.2.3.24</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

#### Modify

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;&gt;UARFCN Information To Modify LCR</td>
<td>1..&lt;maxFreqUencyinCell&gt;</td>
<td></td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15]. This IE indicates the frequency of a Secondary Frequency to modify.</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

#### Delete

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;&gt;UARFCN Information To Delete LCR</td>
<td>1</td>
<td></td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15]. This IE indicates the frequency of Secondary Frequency to delete.</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

Dormant Mode Indicator O 9.2.1.124 YES reject

### Range Bound

| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell |

### 9.1.28  CELL RECONFIGURATION RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.29 CELL RECONFIGURATION FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.30 CELL DELETION REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.31 CELL DELETION RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
## 9.1.32 RESOURCE STATUS INDICATION

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>CHOICE Indication Type</td>
<td>M</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;No Failure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Local Cell Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Local Cell ID</td>
<td>M</td>
<td>9.2.1.38</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Add/Delete Indicator</td>
<td>M</td>
<td>9.2.1.1</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;DL Or Global Capacity Credit</td>
<td>C-add</td>
<td>9.2.1.20B</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;UL Capacity Credit</td>
<td>O</td>
<td>9.2.1.65A</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common Channels Capacity Consumption Law</td>
<td>C-add</td>
<td>9.2.1.9A</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Dedicated Channels Capacity Consumption Law</td>
<td>C-add</td>
<td>9.2.1.20A</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Maximum DL Power Capability</td>
<td>C-add</td>
<td>9.2.1.39</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Minimum Spreading Factor</td>
<td>C-add</td>
<td>9.2.1.47</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Minimum DL Power Capability</td>
<td>C-add</td>
<td>9.2.1.46A</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Local Cell Group ID</td>
<td>O</td>
<td>9.2.1.37A</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Reference Clock Availability</td>
<td>O</td>
<td>9.2.3.14A</td>
<td>TDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Power Local Cell Group ID</td>
<td>O</td>
<td>9.2.1.49B</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;HSDPA Capability</td>
<td>O</td>
<td>9.2.1.31Ga</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH Capability</td>
<td>O</td>
<td>9.2.1.70</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH TTI2ms Capability</td>
<td>C-EDCHCapability</td>
<td>9.2.2.13V</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH SF Capability</td>
<td>C-EDCHCapability</td>
<td>9.2.2.13W</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH HARQ Combining Capability</td>
<td>C-EDCHCapability</td>
<td>9.2.2.13X</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH Capacity Consumption Law</td>
<td>O</td>
<td>9.2.2.13Ja</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;F-DPCH Capability</td>
<td>O</td>
<td>9.2.2.16a</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH TDD Capacity Consumption Law</td>
<td>O</td>
<td>9.2.3.60</td>
<td>TDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Continuous Packet Connectivity DTX-DRX Capability</td>
<td>O</td>
<td>9.2.2.64</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Max UE DTX Cycle</td>
<td>C-DTX-DRXCapacity</td>
<td>9.2.2.95</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>Feature</td>
<td>Value</td>
<td>Standard</td>
<td>Mode</td>
<td>Ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-------</td>
<td>----------</td>
<td>------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Continuous Packet Connectivity HS-SCCH less Capability</td>
<td>O</td>
<td>9.2.2.65</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; MIMO Capability</td>
<td>O</td>
<td>9.2.1.118</td>
<td>FDD and 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; SixtyfourQAM DL Capability</td>
<td>O</td>
<td>9.2.1.110</td>
<td>FDD and 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; MBMS Capability</td>
<td>O</td>
<td>9.2.1.86</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Enhanced FACH Capability</td>
<td>O</td>
<td>9.2.1.114</td>
<td>FDD and 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Enhanced PCH Capability</td>
<td>C- Enhanced FACH Capability</td>
<td>9.2.1.115</td>
<td>FDD and 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; SixteenQAM UL Capability</td>
<td>O</td>
<td>9.2.2.88</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; HS-DSCH MAC-d PDU Size Capability</td>
<td>O</td>
<td>9.2.1.311C</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; MBMSFN Only Mode Capability</td>
<td>O</td>
<td>9.2.3.71</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; F-DPCH Slot Format Capability</td>
<td>O</td>
<td>9.2.2.94</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; E-DCH MAC-d PDU Size Capability</td>
<td>O</td>
<td>9.2.1.74A</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Common E-DCH Capability</td>
<td>O</td>
<td>9.2.2.101</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; E-Al Capability</td>
<td>C- CommonE DCH Capability</td>
<td>9.2.2.102</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Enhanced UE DRX Capability</td>
<td>O</td>
<td>9.2.1.116</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Enhanced UE DRX Capability LCR</td>
<td>O</td>
<td>9.2.1.116</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; E-DPCCH Power Boosting Capability</td>
<td>O</td>
<td>9.2.2.109</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; SixtyfourQAM DL and MIMO Combined Capability</td>
<td>O</td>
<td>9.2.1.121</td>
<td>FDD and 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Multi Cell Capability Info</td>
<td>O</td>
<td>9.2.2.113</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Semi-Persistent scheduling Capability LCR</td>
<td>O</td>
<td>9.2.3.91</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Continuous Packet Connectivity DRX Capability LCR</td>
<td>O</td>
<td>9.2.3.92</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Common E-DCH HS-DPCCH Capability</td>
<td>C- Common E DCH Capability</td>
<td>9.2.2.116</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; MIMO Power Offset For S-CPICH Capability</td>
<td>O</td>
<td>9.2.2.118</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; TX Diversity on DL Control Channels by MIMO UE Capability</td>
<td>O</td>
<td>9.2.2.121</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Single Stream MIMO Capability</td>
<td>O</td>
<td>9.2.2.122</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Type</td>
<td>Reference</td>
<td>Value</td>
<td>Condition</td>
<td>Action</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>------</td>
<td>-----------</td>
<td>-------</td>
<td>-----------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>Dual Band Capability Info</td>
<td>O</td>
<td>9.2.2.125</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Cell Portion Capability LCR</td>
<td>O</td>
<td>9.2.3.106</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Cell Capability Container</td>
<td>O</td>
<td>9.2.2.129</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>TS0 Capability LCR</td>
<td>O</td>
<td>9.2.3.109</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Preceding Weight Set Restriction</td>
<td>O</td>
<td>9.2.2.143</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Adaptive Special Burst Power Capability LCR</td>
<td>O</td>
<td>9.2.3.112</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Local Cell Group Information</td>
<td>O</td>
<td>9.2.1.37A</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local Cell Group ID</td>
<td>M</td>
<td>9.2.1.20B</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DL Or Global Capacity Credit</td>
<td>M</td>
<td>9.2.1.65A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Channels Capacity Consumption Law</td>
<td>M</td>
<td>9.2.1.9A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dedicated Channels Capacity Consumption Law</td>
<td>M</td>
<td>9.2.2.13Ja</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>E-DCH Capacity Consumption Law</td>
<td>O</td>
<td>9.2.2.19A</td>
<td>TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Power Local Cell Group Information</td>
<td>O</td>
<td>9.2.1.49B</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Local Cell Group ID</td>
<td>M</td>
<td>9.2.1.39</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum DL Power Capability</td>
<td>M</td>
<td>9.2.1.39</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference Clock Availability</td>
<td>O</td>
<td>9.2.3.14A</td>
<td>TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>HSDPA Capability</td>
<td>O</td>
<td>9.2.1.31Ga</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature</td>
<td>Value</td>
<td>3GPP TS 25.433 V9.5.0 Release 9</td>
<td>ETSI TS 125 433 V9.5.0 (2011-03)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------</td>
<td>----------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH Capability</td>
<td>O</td>
<td>9.2.1.70</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH TTI2ms Capability</td>
<td>C-ECDCHCapabilty</td>
<td>9.2.2.13V FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH SF Capability</td>
<td>C-ECDCHCapability</td>
<td>9.2.2.13W FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH HARQ Combining Capability</td>
<td>C-ECDCHCapability</td>
<td>9.2.2.13X FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH Capacity Consumption Law</td>
<td>O</td>
<td>9.2.2.13Ja FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;F-DPCH Capability</td>
<td>O</td>
<td>9.2.2.16a FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH TDD Capacity Consumption Law</td>
<td>O</td>
<td>9.2.3.60 TDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Continuous Packet Connectivity DTX-DRX Capability</td>
<td>O</td>
<td>9.2.2.64 FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Max UE DTX Cycle</td>
<td>C-DTX-DRXCapability</td>
<td>9.2.2.95 FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Continuous Packet Connectivity HS-SCCH less Capability</td>
<td>O</td>
<td>9.2.2.65 FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;MIMO Capability</td>
<td>O</td>
<td>9.2.1.118 FDD and 1.28Mcps TDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SixtyfourQAM DL Capability</td>
<td>O</td>
<td>9.2.1.110 FDD and 1.28Mcps TDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;MBMS Capability</td>
<td>O</td>
<td>9.2.1.86 FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Enhanced FACH Capability</td>
<td>O</td>
<td>9.2.1.114 FDD only and 1.28Mcps TDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Enhanced PCH Capability</td>
<td>C-Enhanced FACHCapability</td>
<td>9.2.1.115 FDD only and 1.28Mcps TDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SixteenQAM UL Capacity</td>
<td>O</td>
<td>9.2.2.88 FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-DSCH MAC-d PDU Size Capability</td>
<td>O</td>
<td>9.2.1.31IC FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;MBSFN Only Mode Capability</td>
<td>O</td>
<td>9.2.3.71 1.28Mcps TDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;F-DPCH Slot Format Capability</td>
<td>O</td>
<td>9.2.2.94 FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DPCCH Power Boosting Capability</td>
<td>O</td>
<td>9.2.1.74A FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Common E-DCH Capability</td>
<td>O</td>
<td>9.2.2.101 FDD only</td>
<td>YES Ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-AI Capability</td>
<td>C-CommonE DCHCapability</td>
<td>9.2.2.102 FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Enhanced UE DRX Capability</td>
<td>O</td>
<td>9.2.2.107 FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Enhanced UE DRX Capability LCR</td>
<td>O</td>
<td>9.2.1.116 1.28Mcps TDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DPCCH Power Boosting Capability</td>
<td>O</td>
<td>9.2.2.109 YES ignore</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature Description</td>
<td>Mismatched</td>
<td>Release</td>
<td>Conditions</td>
<td>Type</td>
<td>Ignorable</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>------------</td>
<td>---------</td>
<td>------------------------------------------------</td>
<td>-------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>SixtyfourQAM DL and MIMO Combined Capability</td>
<td>O</td>
<td>9.2.1.121</td>
<td>FDD and 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Multi Cell Capability Info</td>
<td>O</td>
<td>9.2.2.113</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Semi-Persistent scheduling Capability LCR</td>
<td>O</td>
<td>9.2.3.91</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Continuous Packet Connectivity DRX Capability LCR</td>
<td>O</td>
<td>9.2.3.92</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Common E-DCH HS-DPCCH Capability</td>
<td>O</td>
<td>9.2.2.116</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>MIMO Power Offset For S-CPICH Capability</td>
<td>O</td>
<td>9.2.2.118</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>TX Diversity on DL Control Channels by MIMO UE Capability</td>
<td>O</td>
<td>9.2.2.121</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>Single Stream MIMO Capability</td>
<td>O</td>
<td>9.2.2.122</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>Dual Band Capability Info</td>
<td>O</td>
<td>9.2.2.125</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>Cell Portion Capability LCR</td>
<td>O</td>
<td>9.2.3.106</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>Cell Capability Container</td>
<td>O</td>
<td>9.2.2.129</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>TS0 Capability LCR</td>
<td>O</td>
<td>9.2.3.109</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>Precoding Weight Set Restriction</td>
<td>O</td>
<td>9.2.2.143</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>Adaptive Special Burst Power Capability LCR</td>
<td>O</td>
<td>9.2.3.112</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>Local Cell Group Information</td>
<td>0..&lt;maxLocalCellinNode B&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local Cell Group ID</td>
<td>M</td>
<td>9.2.1.37A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DL Or Global Capacity Credit</td>
<td>O</td>
<td>9.2.1.20B</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UL Capacity Credit</td>
<td>O</td>
<td>9.2.1.65A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Channels Capacity Consumption Law</td>
<td>O</td>
<td>9.2.1.9A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dedicated Channels Capacity Consumption Law</td>
<td>O</td>
<td>9.2.1.20A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Capacity Consumption Law</td>
<td>O</td>
<td>9.2.2.13Ja</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>E-DCH TDD Capacity Consumption Law</td>
<td>O</td>
<td>9.2.3.60</td>
<td>TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Communication Control Port Information</td>
<td>0..&lt;maxCPinNode B&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication Control Port ID</td>
<td>M</td>
<td>9.2.1.15</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource Operational State</td>
<td>M</td>
<td>9.2.1.52</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Availability Status</td>
<td>M</td>
<td>9.2.1.2</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>---</td>
<td>---------</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cell Information</td>
<td></td>
<td>9.2.1.9</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Resource</td>
<td>O</td>
<td>9.2.1.52</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Availability Status</td>
<td>O</td>
<td>9.2.1.2</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Primary SCH</td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Secondary SCH</td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Primary CPICH</td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Secondary CPICH</td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>FDD only</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Secondary CPICH</td>
<td>M</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Primary CCPCH</td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;BCH Information</td>
<td>O</td>
<td>Common Transport Channel Status Information 9.2.1.14B</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Secondary CCPCH</td>
<td>O</td>
<td>Common Transport Channel Status Information 9.2.1.14B</td>
<td>See note 1 below</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Secondary CCPCH</td>
<td>M</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual Information</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;PCH Information</td>
<td>O</td>
<td>Common Transport Channel Status Information 9.2.1.14B</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------</td>
<td>------------------------------------------------------</td>
<td>-----</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;FACH Information</td>
<td>0..&lt;maxFA CHCell&gt;</td>
<td>Common Transport Channel Status Information 9.2.1.14B</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;FACH Individual Information</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;PRACH Information</td>
<td>0..&lt;maxP RACHCell&gt;</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;PRACH Individual Information</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;RACH Information</td>
<td>0..&lt;maxP RACHCell&gt;</td>
<td></td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;RACH Individual Information</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;AICH Information</td>
<td>0..&lt;maxP RACHCell&gt;</td>
<td></td>
<td>FDD only</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;AICH Individual Information</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Not Used 1</td>
<td>O</td>
<td>NULL</td>
<td>This item shall not be used. Ignore if received.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Not Used 2</td>
<td>O</td>
<td>NULL</td>
<td>This item shall not be used. Ignore if received.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Not Used 3</td>
<td>O</td>
<td>NULL</td>
<td>This item shall not be used. Ignore if received.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Not Used 4</td>
<td>O</td>
<td>NULL</td>
<td>This item shall not be used. Ignore if received.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SCH Information</td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>Applicable to 3.84Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;FPACH Information</td>
<td>0..&lt;maxFP CHCell&gt;</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;FPACH</td>
<td>M</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;DwPCH Information</td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;HS-DSCH Resources Information</td>
<td>O</td>
<td>0..&lt;\text{maxFreqencyinCell}&gt;</td>
<td>See note 2 below</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Resource Operational State</td>
<td>M</td>
<td>9.2.1.52</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Availability Status</td>
<td>M</td>
<td>9.2.1.2</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Applicable to 1.28Mcps TDD when using multiple frequencies.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;MICH Information</td>
<td>O</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;E-DCH Resources Information</td>
<td>O</td>
<td>0..&lt;\text{maxFreqencyinCell}&gt;</td>
<td>See note 2 below</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Resource Operational State</td>
<td>M</td>
<td>9.2.1.52</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Availability Status</td>
<td>M</td>
<td>9.2.1.2</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Applicable to 1.28Mcps TDD when using multiple frequencies.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;PLCCH Information</td>
<td>O</td>
<td>0..&lt;\text{maxPLCHCell}&gt;</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;PLCCH Individual Information</td>
<td>M</td>
<td>Common Physical Channel Status Information 9.2.1.13A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Primary CCPCH Information 7.68Mcps</td>
<td>O</td>
<td>Common Physical Channel Status Information 7.68Mcps 9.2.3.36</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Secondary CCPCH Information 7.68Mcps</td>
<td>O</td>
<td>0..&lt;\text{maxS CCPCHCell}768&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Module | Format | Description | Applicability | Ignore
|--------|--------|-------------|---------------|--------
| Secondary CCPCH Individual Information 7.68 Mcps | M | Common Physical Channel Status Information 7.68 Mcps | – | –
| PICH Information 7.68 Mcps | O | Common Physical Channel Status Information 7.68 Mcps | YES | ignore
| PRACH Information 7.68 Mcps | 0..<maxP RACHCell > | EACH | ignore
| PRACH Individual Information 7.68 Mcps | M | Common Physical Channel Status Information 7.68 Mcps | – | –
| SCH Information 7.68 Mcps | O | Common Physical Channel Status Information 7.68 Mcps | YES | ignore
| MICH Information 7.68 Mcps | O | Common Physical Channel Status Information 7.68 Mcps | YES | ignore
| E-RUCCH Information | 0..<maxE-RUCCHCell > | Applicable to 3.84 Mcps TDD only | EACH | ignore
| E-RUCCH Individual Information | M | Common Physical Channel Status Information 9.2.1.13A | – | –
| E-RUCCH Information 7.68 Mcps | 0..<maxE-RUCCHCell > | Applicable to 7.68 Mcps TDD only | EACH | ignore
| E-RUCCH Individual Information 7.68 Mcps | M | Common Physical Channel Status Information 7.68 Mcps | – | –
| UARFCN Information LCR | 0..<maxFrequencyCell > | Applicable to 1.28 Mcps TDD when using multiple frequencies | EACH | ignore
| UARFCN | M | 9.2.1.65 | Corresponds to Nt [15] | –
| Resource Operational State | M | 9.2.1.52 | – | –
### >>>>Availability Status

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>9.2.1.2</td>
</tr>
</tbody>
</table>

### >>>>Cause

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>9.2.1.6</td>
</tr>
</tbody>
</table>

### >>>>UpPCH Information LCR

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0..&lt;maxFrequencyinCell&gt;</td>
</tr>
</tbody>
</table>

### >>>>UARFCN

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>9.2.1.65</td>
</tr>
</tbody>
</table>

### >>>>UpPCH Position LCR

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>9.2.3.4Q</td>
</tr>
</tbody>
</table>

### >>>>Resource Operational State

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>9.2.1.52</td>
</tr>
</tbody>
</table>

### >>>>Availability Status

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>9.2.1.2</td>
</tr>
</tbody>
</table>

### >>Power Local Cell Group Information

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0..&lt;maxLocalCellinNodeB&gt;</td>
</tr>
</tbody>
</table>

### >>>>Power Local Cell Group ID

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>9.2.1.49B</td>
</tr>
</tbody>
</table>

### >>>>Maximum DL Power Capability

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>9.2.1.39</td>
</tr>
</tbody>
</table>

### Cause

<table>
<thead>
<tr>
<th>OID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>9.2.1.65</td>
</tr>
</tbody>
</table>

#### Condition

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>add</td>
<td>The IE shall be present if the Add/Delete Indicator IE is set to &quot;Add&quot;.</td>
</tr>
<tr>
<td>EDCHCapability</td>
<td>The IE shall be present if the E-DCH Capability IE is set to &quot;E-DCH Capable&quot;.</td>
</tr>
<tr>
<td>EnhancedFACHCapability</td>
<td>The IE shall be present if the Enhanced FACH Capability IE is set to &quot;Enhanced FACH Capable&quot;.</td>
</tr>
<tr>
<td>DTX-DRXCapability</td>
<td>The IE shall be present if the Continuous Packet Connectivity DTX-DRX Capability IE is present and set to &quot;Continuous Packet Connectivity DTX-DRX Capable&quot;.</td>
</tr>
<tr>
<td>CommonEDCHCapability</td>
<td>The IE shall be present if the Common E-DCH Capability IE is set to &quot;Common E-DCH Capable&quot;.</td>
</tr>
</tbody>
</table>

#### Range Bound

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxLocalCellinNodeB</td>
<td>Maximum number of Local Cells that can exist in the Node B</td>
</tr>
<tr>
<td>maxCellinNodeB</td>
<td>Maximum number of C-IDs that can be configured in the Node B</td>
</tr>
<tr>
<td>maxSCPICHCell</td>
<td>Maximum number of Secondary CPICHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxSCCPICHCell</td>
<td>Maximum number of Secondary CCPCHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxFACHCell</td>
<td>Maximum number of FACHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxPRACHCell</td>
<td>Maximum number of PRACHs and AICHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxCCPinNodeB</td>
<td>Maximum number of Communication Control Ports that can exist in the Node B</td>
</tr>
<tr>
<td>maxFPACHCell</td>
<td>Maximum number of FPACHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxPLCCHCell</td>
<td>Maximum number of PLCCHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxE-RUCCHCell</td>
<td>Maximum number of E-RUCCHs that can be defined in a Cell</td>
</tr>
<tr>
<td>maxFrequencyinCell</td>
<td>Maximum number of Frequencies that can be defined in a Cell</td>
</tr>
</tbody>
</table>

---

**NOTE 1:** This information element is a simplified representation of the ASN.1. [TDD - Repetitions 1 to 8 and repetitions 9 to maxSCCPCHCell are represented by separate ASN.1 structures.] Furthermore, maxSCCPCHCell has different values in the ASN.1 for FDD and for each of the two TDD options.

**NOTE 2:** For 1.28Mcps TDD when using multiple frequencies, this information element for Repetition 1 and repetition 2 through maxFrequencyinCell are represented by respective ASN.1 structures with different criticalities.
### 9.1.33 SYSTEM INFORMATION UPDATE REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCCH Modification Time</td>
<td>O</td>
<td>9.2.1.3</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIB/SB/SIBInformation</td>
<td>M</td>
<td>9.2.1.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IB Type</td>
<td>M</td>
<td>9.2.1.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IB OC ID</td>
<td>M</td>
<td>9.2.1.31A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CHOICE IB Deletion Indicator</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;No Deletion</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SIB Originator</td>
<td>C-SIB</td>
<td>9.2.1.55</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;IB SG REP</td>
<td>O</td>
<td>9.2.1.34</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Segment Information</td>
<td>M</td>
<td>9.2.1.33</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;IB SG POS</td>
<td>O</td>
<td>9.2.1.33</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Segment Type</td>
<td>C-CRNCOrigination</td>
<td>9.2.1.53B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;IB SG DATA</td>
<td>C-CRNCOrigination</td>
<td>9.2.1.32</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Deletion</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxIB</td>
<td>Maximum number of information Blocks supported in one message</td>
</tr>
<tr>
<td>maxBSEG</td>
<td>Maximum number of segments for one Information Block</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRNCOrigination</td>
<td>The IE shall be present if the SIB Originator IE is set to &quot;CRNC&quot; or if the IB Type IE is set to &quot;MIB&quot;, &quot;SB1&quot; or &quot;SB2&quot;.</td>
</tr>
<tr>
<td>SIB</td>
<td>The IE shall be present if the IB Type IE is set to &quot;SIB&quot;.</td>
</tr>
</tbody>
</table>

### 9.1.34 SYSTEM INFORMATION UPDATE RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.35 SYSTEM INFORMATION UPDATE FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
9.1.36 RADIO LINK SETUP REQUEST

9.1.36.1 FDD message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES reject</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

UL DPCH Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;UL Scrambling Code</td>
<td>M</td>
<td>9.2.2.59</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Min UL Channelisation Code Length</td>
<td>M</td>
<td>9.2.2.22</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Max Number of UL DPDCCHs</td>
<td>C-CodeLen</td>
<td>9.2.2.21</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>M</td>
<td>9.2.1.50</td>
<td>For UL</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;TFCS</td>
<td>M</td>
<td>9.2.1.58</td>
<td>For UL</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;UL DPCCH Slot Format</td>
<td>M</td>
<td>9.2.2.57</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;UL SIR Target</td>
<td>M</td>
<td>UL SIR 9.2.1.67A</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Diversity Mode</td>
<td>M</td>
<td>9.2.2.9</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Not Used</td>
<td>O</td>
<td>NULL</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;DPC Mode</td>
<td>O</td>
<td>9.2.2.13C</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;UL DPDCH Indicator For E-DCH Operation</td>
<td>O</td>
<td>9.2.2.61</td>
<td>This IE may be present without the presence of the E-DPCH Information IE</td>
<td>YES reject</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

DL DPCH Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;TFCS</td>
<td>M</td>
<td>9.2.1.58</td>
<td>For DL</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;DL DPCH Slot Format</td>
<td>M</td>
<td>9.2.2.10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;TFCI Signalling Mode</td>
<td>M</td>
<td>9.2.2.50</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;TFCI Presence</td>
<td>C-SlotFormat</td>
<td>9.2.1.57</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Multiplexing Position</td>
<td>M</td>
<td>9.2.2.23</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Not Used</td>
<td>O</td>
<td>NULL</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Not Used</td>
<td>O</td>
<td>NULL</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Power Offset Information</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;PO1</td>
<td>M</td>
<td>Power Offset 9.2.2.29</td>
<td>Power offset for the TFCI bits</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;PO2</td>
<td>M</td>
<td>Power Offset 9.2.2.29</td>
<td>Power offset for the TPC bits</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;PO3</td>
<td>M</td>
<td>Power Offset 9.2.2.29</td>
<td>Power offset for the pilot bits</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;FDD TPC DL Step Size</td>
<td>M</td>
<td>9.2.2.16</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Limited Power Increase</td>
<td>M</td>
<td>9.2.2.18A</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Inner Loop DL PC Status</td>
<td>M</td>
<td>9.2.2.18B</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DCH Information</td>
<td>M</td>
<td>DCH FDD Information 9.2.2.4D</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

RL Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRC Information</td>
<td>1..&lt;maxno</td>
<td>EACH</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

EACH notify
<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Reference</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td></td>
</tr>
<tr>
<td>First RLS Indicator</td>
<td>M</td>
<td>9.2.2.16A</td>
<td></td>
</tr>
<tr>
<td>Frame Offset</td>
<td>M</td>
<td>9.2.1.31</td>
<td></td>
</tr>
<tr>
<td>Chip Offset</td>
<td>M</td>
<td>9.2.2.2</td>
<td></td>
</tr>
<tr>
<td>Propagation Delay</td>
<td>O</td>
<td>9.2.2.35</td>
<td></td>
</tr>
<tr>
<td>Diversity Control Field</td>
<td>C-</td>
<td>9.2.1.25</td>
<td></td>
</tr>
<tr>
<td>RL Specific DCH Information</td>
<td>O</td>
<td>9.2.1.53G</td>
<td>YES</td>
</tr>
<tr>
<td>Delayed Activation</td>
<td>O</td>
<td>9.2.1.24C</td>
<td>YES</td>
</tr>
<tr>
<td>Primary CPICH Usage For Channel Estimation</td>
<td>O</td>
<td>9.2.2.33A</td>
<td>YES</td>
</tr>
<tr>
<td>Secondary CPICH Information</td>
<td>O</td>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH RL Indication</td>
<td>O</td>
<td>9.2.2.13De</td>
<td>YES</td>
</tr>
<tr>
<td>RL Specific E-DCH Information</td>
<td>O</td>
<td>9.2.2.39a</td>
<td>YES</td>
</tr>
<tr>
<td>Synchronisation Indicator</td>
<td>O</td>
<td>9.2.2.48A</td>
<td>YES</td>
</tr>
<tr>
<td>Extended Propagation Delay</td>
<td>O</td>
<td>9.2.2.35A</td>
<td>YES</td>
</tr>
<tr>
<td>F-DPCH Slot Format</td>
<td>O</td>
<td>9.2.2.93</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH Preconfiguration Setup</td>
<td>O</td>
<td>9.2.2.112</td>
<td>YES</td>
</tr>
<tr>
<td>E-RNTI</td>
<td>O</td>
<td>9.2.1.75</td>
<td>YES</td>
</tr>
<tr>
<td>Non-Serving RL Preconfiguration Setup</td>
<td>O</td>
<td>9.2.2.144</td>
<td>YES</td>
</tr>
<tr>
<td>Transmission Gap Pattern Sequence Info</td>
<td>O</td>
<td>9.2.2.53A</td>
<td>YES</td>
</tr>
<tr>
<td>Active Pattern Sequence Information</td>
<td>O</td>
<td>9.2.2.A</td>
<td>YES</td>
</tr>
<tr>
<td>DL Power Balancing Information</td>
<td>O</td>
<td>9.2.2.12B</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH Information</td>
<td>O</td>
<td>HS-DSCH FDD Information 9.2.2.18D</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH-RNTI</td>
<td>O</td>
<td>HS-DSCH-RNTI C-InfoHSDSCH 9.2.1.31J</td>
<td>YES</td>
</tr>
<tr>
<td>HS-PDSCH RL ID</td>
<td>C-</td>
<td>RL ID</td>
<td>YES</td>
</tr>
<tr>
<td>Information</td>
<td>InfoHSDSCH</td>
<td>9.2.1.53</td>
<td>YES</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>------------</td>
<td>----------</td>
<td>-----</td>
</tr>
<tr>
<td>E-DPCH Information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Set of E-DPDCHs</td>
<td>M</td>
<td>9.2.2.20C</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>M</td>
<td>9.2.1.50</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-TFCS Information</td>
<td>M</td>
<td>9.2.2.13Dh</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-TTI</td>
<td>M</td>
<td>9.2.2.13Dl</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DPCCH Power Offset</td>
<td>M</td>
<td>9.2.2.13Dj</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-RGCH 2-Index-Step Threshold</td>
<td>M</td>
<td>9.2.2.13g</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-RGCH 3-Index-Step Threshold</td>
<td>M</td>
<td>9.2.2.13h</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HARQ Info for E-DCH</td>
<td>M</td>
<td>9.2.2.18ba</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HS-DSCH Configured Indicator</td>
<td>M</td>
<td>9.2.2.18Ca</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-RNTI</td>
<td>O</td>
<td>9.2.1.75</td>
<td></td>
</tr>
<tr>
<td>&gt;Minimum Reduced E-DPDCH Gain Factor</td>
<td>O</td>
<td>9.2.2.114</td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH FDD Information</td>
<td>C-EDPCHInf o</td>
<td>9.2.2.13Da</td>
<td>YES</td>
</tr>
<tr>
<td>Serving E-DCH RL</td>
<td>O</td>
<td>9.2.2.48B</td>
<td>YES</td>
</tr>
<tr>
<td>F-DPCH Information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;PO2</td>
<td>M</td>
<td>Power Offset 9.2.2.29</td>
<td>This IE shall be ignored by Node B.</td>
</tr>
<tr>
<td>&gt;FDD TPC DL Step Size</td>
<td>M</td>
<td>9.2.2.16</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Limited Power Increase</td>
<td>M</td>
<td>9.2.2.18A</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Inner Loop DL PC Status</td>
<td>M</td>
<td>9.2.2.18B</td>
<td>–</td>
</tr>
<tr>
<td>Initial DL DPCH Timing Adjustment Allowed</td>
<td>O</td>
<td>9.2.2.18K</td>
<td>YES</td>
</tr>
<tr>
<td>DCH Indicator For E-DCH-HSDPA Operation</td>
<td>O</td>
<td>9.2.2.4F</td>
<td>YES</td>
</tr>
<tr>
<td>Serving Cell Change CFN</td>
<td>O</td>
<td>CFN 9.2.1.7</td>
<td>YES</td>
</tr>
<tr>
<td>Continuous Packet Connectivity DTX-DRX Information</td>
<td>O</td>
<td>9.2.2.66</td>
<td>YES</td>
</tr>
<tr>
<td>Continuous Packet Connectivity HS-SCCH less Information</td>
<td>O</td>
<td>9.2.2.68</td>
<td>YES</td>
</tr>
<tr>
<td>Additional HS Cell Information RL Setup</td>
<td>0..&lt;maxno ofHSDSCH H-1&gt;</td>
<td>For secondary serving HS-DSCH cell. Max 1 in this 3GPP release.</td>
<td>EACH</td>
</tr>
<tr>
<td>&gt;HS-PDSCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td>–</td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HS-DSCH FDD Secondary Serving Information</td>
<td>M</td>
<td>9.2.2.18Da</td>
<td>–</td>
</tr>
<tr>
<td>UE Aggregate Maximum Bit Rate</td>
<td>O</td>
<td>9.2.1.123</td>
<td>YES</td>
</tr>
</tbody>
</table>
### Additional E-DCH Cell Information RL Setup Req

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CodeLen</td>
<td>The IE shall be present if Min UL Channelisation Code Length IE equals to 4.</td>
</tr>
<tr>
<td>NotFirstRL</td>
<td>The IE shall be present if the RL is not the first one in the RL Information IE.</td>
</tr>
<tr>
<td>SlotFormat</td>
<td>The IE shall be present if the DL DPCH Slot Format IE is equal to any of the values from 12 to 16.</td>
</tr>
<tr>
<td>Diversity mode</td>
<td>The IE shall be present if Diversity Mode IE in UL DPCH Information IE is not set to &quot;none&quot;.</td>
</tr>
<tr>
<td>InfoHSDSCH</td>
<td>The IE shall be present if HS-DSCH Information IE is present.</td>
</tr>
<tr>
<td>EDPCHInfo</td>
<td>This IE shall be present if E-DPCH Information IE is present.</td>
</tr>
</tbody>
</table>

### Range Bound

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of RLs for one UE</td>
</tr>
<tr>
<td>maxnoofHSDSCH-1</td>
<td>Maximum number of Secondary Serving HS-DSCH cells for one UE</td>
</tr>
<tr>
<td>maxnoofEDCH-1</td>
<td>Maximum number of uplink frequencies -1 for E-DCH for one UE</td>
</tr>
</tbody>
</table>
### 9.1.36.2 TDD message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>UL CCTrCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td></td>
<td>9.2.3.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCS</td>
<td>M</td>
<td></td>
<td>9.2.1.58</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCI Coding</td>
<td>M</td>
<td></td>
<td>9.2.3.22</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>M</td>
<td></td>
<td>9.2.1.50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL DPCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td></td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td></td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td></td>
<td>9.2.3.19A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL Timeslot Information LCR</td>
<td>M</td>
<td></td>
<td>9.2.3.26C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL SIR Target</td>
<td>O</td>
<td></td>
<td>UL SIR 9.2.1.67A</td>
<td>Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;TDD TPC UL Step Size</td>
<td>O</td>
<td></td>
<td>9.2.3.21a</td>
<td>Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;UL DPCH Information 7.68Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td></td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td></td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td></td>
<td>9.2.3.19A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL Timeslot Information 7.68Mcps</td>
<td>M</td>
<td></td>
<td>9.2.3.38</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DL CCTrCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td></td>
<td>9.2.3.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCS</td>
<td>M</td>
<td></td>
<td>9.2.1.58</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCI Coding</td>
<td>M</td>
<td></td>
<td>9.2.3.22</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>M</td>
<td></td>
<td>9.2.1.50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD TPC DL Step Size</td>
<td>M</td>
<td></td>
<td>9.2.3.21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TPC CCTrCH List</td>
<td></td>
<td></td>
<td></td>
<td>List of uplink</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 3GPP TS 25.433 version 9.5.0 Release 9

<table>
<thead>
<tr>
<th><strong>CCTrCH</strong></th>
<th><strong>CCTrCH which provide TPC</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;TPC CCTrCH ID</td>
<td>M</td>
</tr>
</tbody>
</table>

### DL DPCH Information

<table>
<thead>
<tr>
<th><strong>Field</strong></th>
<th><strong>Value</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
</tr>
<tr>
<td>&gt;&gt;DL Timeslot Information</td>
<td>M</td>
<td>9.2.3.4E</td>
</tr>
</tbody>
</table>

### DL DPCH Information LCR

<table>
<thead>
<tr>
<th><strong>Field</strong></th>
<th><strong>Value</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
</tr>
<tr>
<td>&gt;&gt;DL Timeslot Information LCR</td>
<td>M</td>
<td>9.2.3.4O</td>
</tr>
</tbody>
</table>

### TTSTD Indicator

<table>
<thead>
<tr>
<th><strong>Field</strong></th>
<th><strong>Value</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
</table>

### CCTrCH Initial DL Transmission Power

<table>
<thead>
<tr>
<th><strong>Field</strong></th>
<th><strong>Value</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
</table>

### CCTrCH Maximum DL Transmission Power

<table>
<thead>
<tr>
<th><strong>Field</strong></th>
<th><strong>Value</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
</table>

### CCTrCH Minimum DL Transmission Power

<table>
<thead>
<tr>
<th><strong>Field</strong></th>
<th><strong>Value</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
</table>

### DL DPCH Information 7.68Mcps

<table>
<thead>
<tr>
<th><strong>Field</strong></th>
<th><strong>Value</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
</tr>
<tr>
<td>&gt;&gt;DL Timeslot Information 7.68Mcps</td>
<td>M</td>
<td>9.2.3.39</td>
</tr>
<tr>
<td>DCH Information</td>
<td>O</td>
<td>DCH TDD Information 9.2.3.4C</td>
</tr>
<tr>
<td>DSCH Information</td>
<td>O</td>
<td>DSCH TDD Information 9.2.3.5A</td>
</tr>
<tr>
<td>USCH Information</td>
<td>O</td>
<td>9.2.3.28</td>
</tr>
</tbody>
</table>

### RL Information

<table>
<thead>
<tr>
<th><strong>Field</strong></th>
<th><strong>Value</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
</tr>
<tr>
<td>&gt;&gt;C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
</tr>
<tr>
<td>&gt;&gt;Frame Offset</td>
<td>M</td>
<td>9.2.1.31</td>
</tr>
<tr>
<td>&gt;&gt;Special Burst Scheduling</td>
<td>M</td>
<td>9.2.3.18A</td>
</tr>
<tr>
<td>&gt;&gt;Initial DL Transmission Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
</tr>
<tr>
<td>&gt;&gt;Maximum DL Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
</tr>
<tr>
<td>&gt;&gt;Minimum DL Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
</tr>
<tr>
<td>&gt;&gt;DL Time Slot ISCP Info</td>
<td>O</td>
<td>9.2.3.4F</td>
</tr>
<tr>
<td>&gt;&gt;DL Time Slot ISCP Info LCR</td>
<td>O</td>
<td>9.2.3.4P</td>
</tr>
<tr>
<td>&gt;&gt;RL Specific DCH Information</td>
<td>O</td>
<td>9.2.1.53G</td>
</tr>
</tbody>
</table>
### E-DCH Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
<th>Required</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;E-PUCCH Information</td>
<td>M</td>
<td>9.2.3.45</td>
<td>–</td>
<td>YES reject</td>
</tr>
<tr>
<td>&gt;E-TFCS Information TDD</td>
<td>M</td>
<td>9.2.3.46</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows Information TDD</td>
<td>M</td>
<td>9.2.3.47</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH Non-scheduled Grant Information TDD</td>
<td>O</td>
<td>9.2.3.48</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information 7.68Mcps</td>
<td>M</td>
<td>9.2.3.49</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH Serving RL</td>
<td>O</td>
<td>9.2.1.53</td>
<td>YES reject</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH Information 7.68Mcps</td>
<td>0..1</td>
<td>7.68Mcps TDD only</td>
<td>YES reject</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-PUCCH Information</td>
<td>M</td>
<td>9.2.3.45</td>
<td>–</td>
<td>YES reject</td>
</tr>
<tr>
<td>&gt;E-TFCS Information TDD</td>
<td>M</td>
<td>9.2.3.46</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows Information TDD</td>
<td>M</td>
<td>9.2.3.47</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH Non-scheduled Grant Information 7.68Mcps TDD</td>
<td>O</td>
<td>9.2.3.64</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information 7.68Mcps</td>
<td>M</td>
<td>9.2.3.65</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH Information 1.28Mcps</td>
<td>0..1</td>
<td>1.28Mcps TDD only</td>
<td>YES reject</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-PUCCH Information LCR</td>
<td>M</td>
<td>9.2.3.45a</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-TFCS Information TDD</td>
<td>M</td>
<td>9.2.3.46</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows Information TDD</td>
<td>M</td>
<td>9.2.3.47</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH Non-scheduled Grant Information LCR TDD</td>
<td>O</td>
<td>9.2.3.48a</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information LCR</td>
<td>M</td>
<td>9.2.3.49a</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Power Control GAP</td>
<td>O</td>
<td>INTEGER (1..255)</td>
<td>Unit: Number of subframes Applicable to 1.28Mcps TDD only</td>
<td>YES ignore</td>
</tr>
<tr>
<td>Table Title</td>
<td>Condition</td>
<td>Explanation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>-----------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Packet Connectivity DRX Information LCR</td>
<td>O</td>
<td>9.2.3.93</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH Semi-Persistent scheduling Information LCR</td>
<td>O</td>
<td>9.2.3.96</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH Semi-Persistent scheduling Information LCR</td>
<td>O</td>
<td>9.2.3.97</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
</tr>
<tr>
<td>Idle Interval Information</td>
<td>O</td>
<td>9.2.3.102</td>
<td>TDD only</td>
<td>YES</td>
</tr>
<tr>
<td>UE Selected MBMS Service Information</td>
<td>O</td>
<td>9.2.3.104</td>
<td>This IE indicates the Time Slot information and/or TDM information of UE selected MBMS service in the other frequency. For 1.28Mcps TDD only.</td>
<td>YES</td>
</tr>
<tr>
<td>HS-SCCH TPC step size</td>
<td>O</td>
<td>9.2.3.21</td>
<td>1.28 Mcps TDD only. This IE is mandatory if DL CCTrCH Information IE and E-DCH Information 1.28Mcps IE are both absent.</td>
<td>YES</td>
</tr>
<tr>
<td>DCH Measurement Occasion Information</td>
<td>O</td>
<td>9.2.3.111</td>
<td>Applicable for 1.28 Mcps TDD when HS-SCCH(s), E-AGCH(s) or HS-PDSCH are configured on TS0.</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH-RNTI for FACH</td>
<td>O</td>
<td>HS-DSCH-RNTI 9.2.1.31J</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>max\text{noCCTrCH}</td>
<td>Number of CCTrCHs for one UE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>InfoHSDSCH</td>
<td>The IE shall be present if HS-DSCH Information IE is present.</td>
</tr>
</tbody>
</table>
9.1.37 RADIO LINK SETUP RESPONSE

9.1.37.1 FDD message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES reject</td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td></td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td></td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Communication Control Port ID</td>
<td>M</td>
<td>9.2.1.15</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

**RL Information Response**

| 1..<maxno ofRLs> | EACH | ignore |

| >RL ID                     | M    | 9.2.1.53 |                       |                                                                                        |             |                      |
| >RL Set ID                 | M    | 9.2.2.39 |                       |                                                                                        |             |                      |
| >Received Total Wide Band Power | M    | 9.2.2.39A |                       |                                                                                        |             |                      |
| >CHOICE Diversity Indication | M    |         |                       |                                                                                        |             |                      |

| >>Combining               |       |         |                       |                                                                                        |             |                      |
| >>>RL ID                  | M    | 9.2.1.53 | Reference RL ID for the combining |                                                                                        |             |                      |

| >>Non Combining or First RL |       |         |                       |                                                                                        |             |                      |
| >>>DCH Information Response | M    | 9.2.1.20C |                       |                                                                                        |             |                      |

| >>>E-DCH FDD Information Response | O    | 9.2.2.13Db | YES | ignore |

| >Not Used          | O    | NULL      |                       |                                                                                        |             |                      |

| >SSDT Support Indicator | M    | 9.2.2.46 |                       |                                                                                        |             |                      |

| >DL Power Balancing Activation Indicator | O    | 9.2.2.12C | YES | ignore |

| >E-DCH RL Set ID      | O    | RL Set ID | 9.2.2.39 |                       | YES         | ignore               |

| >E-DCH FDD DL Control Channel Information | O    | 9.2.2.13Dc |                       |                                                                                        |             |                      |

| >Initial DL DPCH Timing Adjustment | O    | DL DPCH Timing Adjustment | 9.2.2.10A |                       | YES         | ignore               |

| > HS-DSCH Preconfiguration Info | O    | 9.2.2.111 | YES | ignore |

| >Non-Serving RL Preconfiguration Info | O    | 9.2.2.145 | YES | ignore |

| Criticality Diagnostics | O    | 9.2.1.17 | YES | ignore |

| HS-DSCH Information Response | O    | HS-DSCH FDD Information Response | 9.2.2.18E |                       | YES         | ignore               |

<p>| Continuous Packet | O    | 9.2.2.69 | YES | ignore |</p>
<table>
<thead>
<tr>
<th>Connectivity HS-SCCH less Information Response</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Additional HS Cell Information Response</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0..&lt;maxno ofHSDSC H-1&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For secondary serving HS-DSCH cell. Max 1 in this 3GPP release.</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-PDSCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH FDD Secondary Serving Information Response</td>
<td>M</td>
<td>9.2.2.18EA</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Additional E-DCH Cell Information Response</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0..&lt;maxno ofEDCH-1&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Additional E-DCH FDD Information Response</td>
<td>M</td>
<td>9.2.2.135</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnooRLs</td>
<td>Maximum number of RLs for one UE</td>
</tr>
<tr>
<td>maxnooHSDSC-1</td>
<td>Maximum number of Secondary Serving HS-DSCH cells for one UE</td>
</tr>
<tr>
<td>maxnooEDCH-1</td>
<td>Maximum number of uplink frequencies -1 for E-DCH for one UE</td>
</tr>
</tbody>
</table>
### 9.1.37.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Communication Control Port ID</td>
<td>M</td>
<td>9.2.1.15</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td><strong>RL Information Response</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Time Slot ISCP Info</td>
<td>M</td>
<td>9.2.3.26D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL PhysCH SF Variation</td>
<td>M</td>
<td>9.2.3.26B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DCH Information Response</td>
<td>O</td>
<td>9.2.1.20C</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;DSCH Information Response</td>
<td>O</td>
<td>9.2.3.5b</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;USCH Information Response</td>
<td>O</td>
<td>9.2.3.29</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td><strong>RL Information Response LCR</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Time Slot ISCP Info LCR</td>
<td>M</td>
<td>9.2.3.26F</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL PhysCH SF Variation</td>
<td>M</td>
<td>9.2.3.26B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DCH Information Response</td>
<td>O</td>
<td>9.2.1.20C</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;DSCH Information Response</td>
<td>O</td>
<td>9.2.3.5b</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;USCH Information Response</td>
<td>O</td>
<td>9.2.3.29</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Information Response</td>
<td>O</td>
<td>HS-DSCH TDD Information Response 9.2.3.5G</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>E-DCH Information Response</td>
<td>O</td>
<td>E-DCH TDD Information Response 9.2.3.50</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Continuous Packet Connectivity DRX Information Response LCR</td>
<td>O</td>
<td>9.2.3.95</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Service Description</td>
<td>Parameter</td>
<td>Reference</td>
<td>Additional Information</td>
<td>Configuration</td>
<td>Action</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>-----------</td>
<td>-----------</td>
<td>-------------------------</td>
<td>---------------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Semi-Persistent scheduling Information Response LCR</td>
<td>O</td>
<td>9.2.3.98</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>E-DCH Semi-Persistent scheduling Information Response LCR</td>
<td>O</td>
<td>9.2.3.99</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>E-RNTI for FACH</td>
<td>O</td>
<td>E-RNTI 9.2.1.75</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.38 RADIO LINK SETUP FAILURE

#### 9.1.38.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td></td>
<td>reject</td>
<td>reject</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>C-Success</td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Communication Control Port ID</td>
<td>O</td>
<td>9.2.1.15</td>
<td>YES</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>CHOICE Cause Level</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;General</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;RL Specific</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| >>Unsuccessful RL Information Response | 1..<maxno ofRLs> | EACH | ignore |
| >>RL ID          | M        | 9.2.1.53 |                       |                       |             |                     |
| >>Cause          | M        | 9.2.1.6  |                       |                       |             |                     |

| >>Successful RL Information Response | 0..<maxno ofRLs> | Note: There will never be maxno of RLs repetitions of this sequence. | EACH | ignore |
| >>RL ID          | M        | 9.2.1.53 |                       |                       |             |                     |
| >>RL Set ID      | M        | 9.2.2.39 |                       |                       |             |                     |
| >>Received Total Wide Band Power | M        | 9.2.2.39A |                       |                       |             |                     |
| >>CHOICE Diversity Indication | M        | 9.2.1.6 |                       |                       |             |                     |
| >>>Combining     |          |        |                       |                       |             |                     |
| >>>>>RL ID       | M        | 9.2.1.53 | Reference RL ID for the combining |                       |             |                     |
| >>>>>Non Combining or First RL |          |        |                       |                       |             |                     |
| >>>>>DCH Information Response | M        | 9.2.1.20C |                       |                       |             |                     |
| >>>>>E-DCH FDD Information Response | O        | 9.2.2.13Db | YES |                       | YES | ignore |
| >>>Not Used      | O        | NULL   |                       |                       |             |                     |
| >>>SSDT Support Indicator | M        | 9.2.2.46 |                       |                       |             |                     |
| >>>DL Power Balancing Activation Indicator | O        | 9.2.2.12C | YES |                       | YES | ignore |
| >>>E-DCH RL Set ID | O        | RL Set ID 9.2.2.39 | YES |                       | YES | ignore |
| >>>E-DCH FDD DL   | O        | 9.2.2.13Dc | YES |                       | YES | ignore |
### Control Channel Information

<table>
<thead>
<tr>
<th>Information</th>
<th>Type</th>
<th>Value</th>
<th>Criticality</th>
<th>Ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;&gt;Initial DL DPCH Timing Adjustment</td>
<td>O</td>
<td>DL DPCH Timing Adjustment</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9.2.2.10A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; HS-DSCH Preconfiguration Info</td>
<td>O</td>
<td>9.2.2.111</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt; Non-Serving RL Preconfiguration Info</td>
<td>O</td>
<td>9.2.2.145</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt; HS-DSCH Information Response</td>
<td>O</td>
<td>HS-DSCH FDD Information</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Response 9.2.2.18E</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Continuous Packet Connectivity HS-SCCH less Info</td>
<td>O</td>
<td>9.2.2.69</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt; Additional HS Cell Information Response</td>
<td></td>
<td>0..&lt;maxno of HSDSCH H-1&gt;</td>
<td>EACH</td>
<td>ignore</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For secondary serving HS-DSCH cell. Max 1 in this 3GPP release.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; HS-PDSCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt; HS-DSCH FDD Secondary Serving Information Response</td>
<td>M</td>
<td>9.2.2.18EA</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt; Additional E-DCH Cell Information Response</td>
<td></td>
<td>0..&lt;maxno of EDCH-1&gt;</td>
<td>EACH</td>
<td>ignore</td>
</tr>
<tr>
<td></td>
<td></td>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Additional E-DCH FDD Information Response</td>
<td>M</td>
<td>9.2.2.135</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

### Condition

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>The IE shall be present if at least one of the radio links has been successfully set up.</td>
</tr>
</tbody>
</table>

### Range Bound

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of RLs for one UE</td>
</tr>
<tr>
<td>maxnoofHSDSCH-1</td>
<td>Maximum number of Secondary Serving HS-DSCH cells for one UE</td>
</tr>
<tr>
<td>maxnoofEDCH-1</td>
<td>Maximum number of uplink frequencies -1 for E-DCH for one UE</td>
</tr>
</tbody>
</table>
### 9.1.38.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>CHOICE Cause Level</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;General</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;RL Specific</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Unsuccessful RL</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Information Response</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td></td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>
## 9.1.39 RADIO LINK ADDITION REQUEST

### 9.1.39.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Compressed Mode Deactivation Flag</td>
<td>O</td>
<td>9.2.2.3A</td>
<td>YES</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td><strong>RL Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Frame Offset</td>
<td>M</td>
<td>9.2.1.31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Chip Offset</td>
<td>M</td>
<td>9.2.2.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Diversity Control Field</td>
<td>M</td>
<td>9.2.1.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Code Information</td>
<td>M</td>
<td>9.2.2.14A</td>
<td>FDD DL Code Information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Initial DL Transmission Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Initial power on DPCH or on F-DPCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Maximum allowed power on DPCH or on F-DPCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Minimum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Minimum allowed power on DPCH or on F-DPCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Not Used</td>
<td>O</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transmit Diversity Indicator</td>
<td>O</td>
<td>9.2.2.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Reference Power</td>
<td>O</td>
<td>DL power 9.2.1.21</td>
<td>Power on DPCH or on F-DPCH</td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;RL Specific DCH Information</td>
<td>O</td>
<td>9.2.1.53G</td>
<td></td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Delayed Activation</td>
<td>O</td>
<td>9.2.1.24C</td>
<td></td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH RL Indication</td>
<td>O</td>
<td>9.2.2.13De</td>
<td></td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>&gt;RL Specific E-DCH Information</td>
<td>O</td>
<td>9.2.2.39a</td>
<td></td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Synchronisation Indicator</td>
<td>O</td>
<td>9.2.2.48A</td>
<td></td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;F-DPCH Slot Format</td>
<td>O</td>
<td>9.2.2.93</td>
<td></td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Preconfiguration Setup</td>
<td>O</td>
<td>9.2.2.112</td>
<td></td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Non-Serving RL Preconfiguration Setup</td>
<td>O</td>
<td>9.2.2.144</td>
<td></td>
<td></td>
<td></td>
<td>Ignore</td>
</tr>
<tr>
<td>Initial DL DPCH Timing Adjustment Allowed</td>
<td>O</td>
<td>9.2.2.18K</td>
<td></td>
<td></td>
<td></td>
<td>Ignore</td>
</tr>
<tr>
<td>Serving E-DCH RL</td>
<td>O</td>
<td>9.2.2.48B</td>
<td></td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Serving Cell Change CFN</td>
<td>O</td>
<td>CFN 9.2.1.7</td>
<td></td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Serving Cell</td>
<td>O</td>
<td>9.2.2.18Eb</td>
<td></td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Change Information</td>
<td>0..1</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>------</td>
<td>-----</td>
<td>--------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>E-DPCH Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Set of E-DPDCHs</td>
<td>M</td>
<td>9.2.2.20C</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>M</td>
<td>9.2.1.50</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-TFCS Information</td>
<td>M</td>
<td>9.2.2.13Dh</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-TTI</td>
<td>M</td>
<td>9.2.2.13Di</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DPCCH Power Offset</td>
<td>M</td>
<td>9.2.2.13Dj</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RGCH 2-Index-Step Threshold</td>
<td>M</td>
<td>9.2.2.13Ig</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RGCH 3-Index-Step Threshold</td>
<td>M</td>
<td>9.2.2.13Ih</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HARQ Info for E-DCH</td>
<td>M</td>
<td>9.2.2.18ba</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Configured Indicator</td>
<td>M</td>
<td>9.2.2.18Ca</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Minimum Reduced E-DPDCH Gain Factor</td>
<td>O</td>
<td>9.2.2.114</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>E-DCH FDD Information</strong></td>
<td>C-EDPCHInf0</td>
<td>9.2.2.13Da</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Additional HS Cell Information RL Addition</strong></td>
<td>0..&lt;maxno of HSDSC H-1&gt;</td>
<td>For secondary serving HS-DSCH cell. Max 1 in this 3GPP release.</td>
<td>EACH reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-PDSCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH FDD Secondary Serving Information</td>
<td>M</td>
<td>9.2.2.18Da</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UE Aggregate Maximum Bit Rate</strong></td>
<td>O</td>
<td>9.2.1.123</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Additional E-DCHCell Information RL Add Req</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CHOICE Setup Or Addition Of E-DCH On Secondary UL Frequency</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Setup</td>
<td></td>
<td></td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Setup Used when the secondary UL frequency does not exist or is not configured with E-DCH in the current Node B Communication Context</td>
<td></td>
<td></td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Multicell E-DCH Transport Bearer Mode</td>
<td>M</td>
<td>9.2.2.130</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Additional E-DCH Cell Information Setup</td>
<td>1..&lt;maxno ofEDCH-1&gt;</td>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release.</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Additional E-DCH FDD Setup Information</td>
<td>M</td>
<td>9.2.2.131</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Addition Used when there exist additional E-DCH RLs in the</td>
<td></td>
<td></td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Additional E-DCH Cell Information Addition

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPCHInfo</td>
<td>This IE shall be present if E-DPCH Information IE is present.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of RLs for one UE</td>
</tr>
<tr>
<td>maxnoofHSDSCH-1</td>
<td>Maximum number of Secondary Serving HS-DSCH cells for one UE</td>
</tr>
<tr>
<td>maxnoofEDCH-1</td>
<td>Maximum number of uplink frequencies -1 for E-DCH for one UE</td>
</tr>
</tbody>
</table>
### 9.1.39.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics and Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td></td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td><strong>UL CCTrCH Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL DPCH Information</td>
<td></td>
<td>0..1</td>
<td></td>
<td>Applicable to 3.84Mcps TDD only</td>
<td>YES</td>
<td>notify</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL Timeslot Information</td>
<td>M</td>
<td>9.2.3.26C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL DPCH Information LCR</td>
<td></td>
<td>0..1</td>
<td></td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>notify</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL Timeslot Information LCR</td>
<td>M</td>
<td>9.2.3.26E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD TPC UL Step Size</td>
<td>O</td>
<td>9.2.3.21a</td>
<td></td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;UL DPCH Information 7.68Mcps</td>
<td></td>
<td>0..1</td>
<td></td>
<td>Applicable to 7.68Mcps TDD only</td>
<td>YES</td>
<td>notify</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL Timeslot Information 7.68Mcps</td>
<td>M</td>
<td>9.2.3.38</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DL CCTrCH Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL DPCH Information</td>
<td></td>
<td>0..1</td>
<td></td>
<td>Applicable to 3.84Mcps TDD only</td>
<td>YES</td>
<td>notify</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;DL Timeslot Information</td>
<td>M</td>
<td>9.2.3.4E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL DPCH Information LCR</td>
<td></td>
<td>0..1</td>
<td></td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>notify</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;DL Timeslot Information LCR</td>
<td>M</td>
<td>9.2.3.4O</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH Initial DL</td>
<td>O</td>
<td></td>
<td></td>
<td>DL Power</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Parameter</td>
<td>Value</td>
<td>Description</td>
<td>Applicability</td>
<td>Action</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
<td>-------------</td>
<td>---------------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmission Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD TPC DL Step Size</td>
<td>O 9.2.3.21</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH Maximum DL Transmission Power</td>
<td>O DL Power 9.2.1.21</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH Minimum DL Transmission Power</td>
<td>O DL Power 9.2.1.21</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL DPCH Information 7.68Mcps</td>
<td>0..1</td>
<td>Applicable to 7.68Mcps TDD only</td>
<td>YES</td>
<td>notify</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M 9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M 9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD DPCH Offset</td>
<td>M 9.2.3.19A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;DL Timeslot Information 7.68Mcps</td>
<td>M 9.2.3.39</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RL Information</td>
<td>1</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M 9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>M 9.2.1.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Frame Offset</td>
<td>M 9.2.1.31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Diversity Control Field</td>
<td>M 9.2.1.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Initial DL Transmission Power</td>
<td>O DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum DL Power</td>
<td>O DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Minimum DL Power</td>
<td>O DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Time Slot ISCP Info</td>
<td>O 9.2.3.4F</td>
<td>Applicable to 3.84Mcps TDD and 7.68Mcps TDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Time Slot ISCP Info LCR</td>
<td>O 9.2.3.4P</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL Specific DCH Information</td>
<td>O 9.2.1.53G</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Delayed Activation</td>
<td>O 9.2.1.24C</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Synchronisation Parameters LCR</td>
<td>0..1</td>
<td>Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Uplink Synchronisation Step Size</td>
<td>M 9.2.3.26H</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Uplink Synchronisation Frequency</td>
<td>M 9.2.3.26G</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>O 9.2.1.65</td>
<td>Mandatory for 1.28Mcps TDD when using multiple frequencies. Corresponds to NT [15]</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Information</td>
<td>O</td>
<td>HS-DSCH TDD Information 9.2.3.5F</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH-RNTI</td>
<td>C-HSDSCH RadioLink 9.2.1.31J</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-PDSCH RL ID</td>
<td>O RL ID 9.2.1.53</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Information</td>
<td>0..1 3.84Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-PUCCH Information</td>
<td>M 9.2.3.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Type</td>
<td>Value</td>
<td>7.68 Mcps TDD Only</td>
<td>1.28 Mcps TDD Only</td>
<td>1.28 Mcps TDD Only</td>
<td>1.28 Mcps TDD Only</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>------</td>
<td>--------------------------------</td>
<td>--------------------</td>
<td>--------------------</td>
<td>--------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>E-DCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-PUCCH Information</td>
<td>M</td>
<td>9.2.3.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-TFCS Information TDD</td>
<td>M</td>
<td>9.2.3.46</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows Information TDD</td>
<td>M</td>
<td>9.2.3.47</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Non-scheduled Grant Information 7.68 Mcps TDD</td>
<td>O</td>
<td>9.2.3.64</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information</td>
<td>M</td>
<td>9.2.3.65</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-PUCCH Information</td>
<td>M</td>
<td>9.2.3.45a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-TFCS Information TDD</td>
<td>M</td>
<td>9.2.3.46</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows Information TDD</td>
<td>M</td>
<td>9.2.3.47</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Non-scheduled Grant Information LCR TDD</td>
<td>O</td>
<td>9.2.3.48a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information</td>
<td>M</td>
<td>9.2.3.49a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Control GAP</td>
<td>O</td>
<td>INTEGER (1..255)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Packet Connectivity DRX Information LCR</td>
<td>O</td>
<td>9.2.3.93</td>
<td>1.28 Mcps TDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Semi-Persistent scheduling Information LCR</td>
<td>O</td>
<td>9.2.3.96</td>
<td>1.28 Mcps TDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Semi-Persistent scheduling Information LCR</td>
<td>O</td>
<td>9.2.3.97</td>
<td>1.28 Mcps TDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Idle Interval Information</td>
<td>O</td>
<td>9.2.3.102</td>
<td>TDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UE Selected MBMS Service Information</td>
<td>O</td>
<td>9.2.3.104</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-SCCH TPC step size</td>
<td>O</td>
<td>9.2.3.21</td>
<td>1.28 Mcps TDD only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DCH Measurement Occasion Information</td>
<td>O</td>
<td>9.2.3.111</td>
<td>Applicable for 1.28 Mcps TDD when HS-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range Bound</td>
<td>Explanation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoCCTrCH</td>
<td>Number of CCTrCH for one UE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSDSCHRadioLink</td>
<td>The IE shall be present if HS-PDSCH RL ID IE is present</td>
</tr>
</tbody>
</table>
9.1.40 RADIO LINK ADDITION RESPONSE

9.1.40.1 FDD message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RL Information Response</th>
<th>1..&lt;maxno ofRLs-1&gt;</th>
<th>EACH</th>
<th>ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>–</td>
</tr>
<tr>
<td>&gt;RL Set ID</td>
<td>M</td>
<td>9.2.2.39</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Received Total Wide Band Power</td>
<td>M</td>
<td>9.2.2.39A</td>
<td>–</td>
</tr>
<tr>
<td>&gt;CHOICE Diversity Indication</td>
<td>M</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Combining</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>Reference RL</td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH FDD Information Response</td>
<td>O</td>
<td>9.2.2.13Db</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Non Combining</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;DCH Information Response</td>
<td>M</td>
<td>9.2.1.20C</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH FDD Information Response</td>
<td>O</td>
<td>9.2.2.13Db</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;SSDT Support Indicator</td>
<td>M</td>
<td>9.2.2.46</td>
<td>–</td>
</tr>
<tr>
<td>&gt;DL Power Balancing Activation Indicator</td>
<td>O</td>
<td>9.2.2.12C</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;E-DCH RL Set ID</td>
<td>O</td>
<td>RL Set ID 9.2.2.39</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;E-DCH FDD DL Control Channel Information</td>
<td>O</td>
<td>9.2.2.13Dc</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;Initial DL DPCH Timing Adjustment</td>
<td>O</td>
<td>DL DPCH Timing Adjustment 9.2.2.10A</td>
<td>YES</td>
</tr>
<tr>
<td>&gt; HS-DSCH Preconfiguration Info</td>
<td>O</td>
<td>9.2.2.111</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;Non-Serving RL Preconfiguration Info</td>
<td>O</td>
<td>9.2.2.145</td>
<td>YES</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH Serving Cell Change Information Response</td>
<td>O</td>
<td>9.2.2.18Ec</td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH Serving Cell Change Information Response</td>
<td>O</td>
<td>9.2.2.18Ed</td>
<td>YES</td>
</tr>
<tr>
<td>MAC-hs Reset Indicator</td>
<td>O</td>
<td>9.2.1.38Ac</td>
<td>YES</td>
</tr>
<tr>
<td>Additional HS Cell Change Information Response</td>
<td>0..&lt;maxno ofHSDSCH H-1&gt;</td>
<td>EACH</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;HS-PDSCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td>–</td>
</tr>
<tr>
<td>Additional E-DCH Cell Information Response RL Add</td>
<td>M</td>
<td>9.2.2.18Eca</td>
<td>–</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>---</td>
<td>-------------</td>
<td>---</td>
</tr>
<tr>
<td>0..&lt;maxnoofEDCH-1&gt;</td>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release.</td>
<td>EACH</td>
<td>ignore</td>
</tr>
</tbody>
</table>

| > Additional E-DCH FDD Information Response | O | 9.2.2.135 | – |
| > Additional E-DCH Serving Cell Change Information Response | O | E-DCH Serving Cell Change Information Response 9.2.2.18Ed | – |

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of RLs for one UE</td>
</tr>
<tr>
<td>maxnoofHSDSCH-1</td>
<td>Maximum number of Secondary Serving HS-DSCH cells for one UE</td>
</tr>
<tr>
<td>maxnoofEDCH-1</td>
<td>Maximum number of uplink frequencies -1 for E-DCH for one UE</td>
</tr>
</tbody>
</table>
### 9.1.40.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RL Information Response</strong></td>
<td></td>
<td></td>
<td></td>
<td>Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Time Slot ISCP Info</td>
<td>M</td>
<td>9.2.3.26D</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL PhysCH SF Variation</td>
<td>M</td>
<td>9.2.3.26B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CHOICE Diversity Indication</td>
<td>M</td>
<td></td>
<td></td>
<td>Indicates whether the old Transport Bearer shall be reused or not</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Combining</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>Reference RL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Non Combining</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;DCH Information Response</td>
<td>M</td>
<td>9.2.1.20C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DSCH Information Response</td>
<td>O</td>
<td>9.2.3.5b</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;USCH Information Response</td>
<td>O</td>
<td>9.2.3.29</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td></td>
<td>Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td><strong>RL Information Response LCR</strong></td>
<td></td>
<td></td>
<td></td>
<td>Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Time Slot ISCP Info LCR</td>
<td>M</td>
<td>9.2.3.26F</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL PhysCH SF Variation</td>
<td>M</td>
<td>9.2.3.26B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CHOICE Diversity indication</td>
<td>M</td>
<td></td>
<td></td>
<td>Indicates whether the old Transport Bearer shall be reused or not</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Combining</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>Reference RL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Non Combining</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;DCH Information Response</td>
<td>M</td>
<td>9.2.1.20C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DSCH Information Response</td>
<td>O</td>
<td>9.2.3.5b</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9.2.3.29</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>---</td>
<td>----------------</td>
<td>-----</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;USCH Information Response</td>
<td>O</td>
<td>HS-DSCH TDD Information Response 9.2.3.5G</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Information Response</td>
<td>O</td>
<td>E-DCH TDD Information Response 9.2.3.50</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Information Response</td>
<td>O</td>
<td>Continuous Packet Connectivity DRX Information Response LCR 9.2.3.95</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td></td>
<td>O</td>
<td>HS-DSCH Semi-Persistent scheduling Information Response LCR 9.2.3.98</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td></td>
<td>O</td>
<td>E-DCH Semi-Persistent scheduling Information Response LCR 9.2.3.99</td>
<td>1.28 Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.41 RADIO LINK ADDITION FAILURE

#### 9.1.41.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>CHOICE Cause Level</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;General</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;RL Specific</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Unsuccessful RL Information Response</td>
<td></td>
<td></td>
<td>1..&lt;maxno ofRLs-1&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td></td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Successful RL Information Response</td>
<td></td>
<td></td>
<td>0..&lt;maxno ofRLs-2&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td></td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL Set ID</td>
<td>M</td>
<td></td>
<td>9.2.2.39</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Received Total Wide Band Power</td>
<td>M</td>
<td></td>
<td>9.2.2.39A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;CHOICE Diversity Indication</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Combining</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;E-DCH FDD Information Response</td>
<td></td>
<td></td>
<td>9.2.2.13Db</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;Non Combining</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;DCH Information Response</td>
<td>M</td>
<td></td>
<td>9.2.1.20C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;E-DCH FDD Information Response</td>
<td></td>
<td></td>
<td>9.2.2.13Db</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SSDT Support Indicator</td>
<td>M</td>
<td></td>
<td>9.2.2.46</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;DL Power Balancing Activation Indicator</td>
<td></td>
<td></td>
<td>9.2.2.12C</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH RL Set ID</td>
<td>O</td>
<td></td>
<td>RL Set ID 9.2.2.39</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH FDD DL Control Channel Information</td>
<td></td>
<td></td>
<td>9.2.2.13Dc</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Initial DL DPCH Timing Adjustment</td>
<td>O</td>
<td></td>
<td>DL DPCH Timing Adjustment 9.2.2.10A</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; HS-DSCH Preconfiguration Info</td>
<td>O</td>
<td></td>
<td>9.2.2.111</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Non-Serving RL Preconfiguration Info</td>
<td></td>
<td></td>
<td>9.2.2.145</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Message Name</td>
<td>Presence</td>
<td>Range</td>
<td>IE Type and Reference</td>
<td>Semantics Description</td>
<td>Criticality</td>
<td>Assigned Criticality</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>----------</td>
<td>-------</td>
<td>-----------------------</td>
<td>-----------------------</td>
<td>-------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td></td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>CHOICE Cause Level</td>
<td>M</td>
<td></td>
<td></td>
<td>YES</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;General</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL Specific</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Unsuccessful RL Information Response</td>
<td></td>
<td>1</td>
<td></td>
<td>YES</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Range Bound

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of RLs for one UE</td>
</tr>
<tr>
<td>maxnoofHSDSCH-1</td>
<td>Maximum number of Secondary Serving HS-DSCH cells for one UE</td>
</tr>
<tr>
<td>maxnoofEDCH-1</td>
<td>Maximum number of uplink frequencies -1 for E-DCH for one UE</td>
</tr>
</tbody>
</table>

### 9.1.41.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td></td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>CHOICE Cause Level</td>
<td>M</td>
<td></td>
<td></td>
<td>YES</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;General</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL Specific</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Unsuccessful RL Information Response</td>
<td></td>
<td>1</td>
<td></td>
<td>YES</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.42 RADIO LINK RECONFIGURATION PREPARE

#### 9.1.42.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES reject</td>
<td></td>
</tr>
</tbody>
</table>

| UL DPCH Information                    |          |       | 0..1                  | YES reject            |             |                      |
|                                        |          |       |                       |                       |             |                      |
| >UL Scrambling Code                    | O        | 0     | 9.2.2.59              |                       |             |                      |
| >UL SIR Target                         | O        |       | UL SIR 9.2.1.67A      |                       |             |                      |
| >Min UL Channelization Code Length     | O        | 0     | 9.2.2.22              |                       |             |                      |
| >Max Number of UL DPDCHs               | C-CodeLen|       | 9.2.2.21              |                       |             |                      |
| >Puncture Limit                        | O        |       | 9.2.1.50              | For UL                |             |                      |
| >TFCS                                  | O        |       | 9.2.1.58              |                       |             |                      |
| >UL DPCCH Slot Format                  | O        |       | 9.2.2.57              |                       |             |                      |
| >Diversity Mode                        | O        |       | 9.2.2.9               |                       |             |                      |
| >Not Used                              | O        | NULL  |                       |                       |             |                      |
| >UL DPDCH Indicator For E-DCH Operation| O        |       | 9.2.2.61              | YES reject             |             |                      |

| DL DPCH Information                    |          |       | 0..1                  | YES reject            |             |                      |
|                                        |          |       |                       |                       |             |                      |
| >TFCS                                  | O        |       | 9.2.1.58              |                       |             |                      |
| >DL DPCH Slot Format                   | O        |       | 9.2.2.10              |                       |             |                      |
| >TFCI Signalling Mode                  | O        |       | 9.2.2.50              |                       |             |                      |
| >TFCI Presence                         | C-SlotFormat|       | 9.2.1.57              |                       |             |                      |
| >Multiplexing Position                 | O        |       | 9.2.2.23              |                       |             |                      |
| >Not Used                              | O        | NULL  |                       |                       |             |                      |
| >Not Used                              | O        | NULL  |                       |                       |             |                      |
| >Limited Power Increase                | O        |       | 9.2.2.18A             |                       |             |                      |

| >DL DPCH Power Information             |          |       | 0..1                  | YES reject            |             |                      |
|                                        |          |       |                       |                       |             |                      |
| >>Power Offset Information             | 1        |       |                       |                       |             |                      |
| >>>PO1                                 | M        |       | Power Offset 9.2.2.29  | Power offset for the TFCI bits |             |                      |
| >>>PO2                                 | M        |       | Power Offset 9.2.2.29  | Power offset for the TPC bits |             |                      |
| >>>PO3                                 | M        |       | Power Offset 9.2.2.29  | Power offset for the pilot bits |             |                      |

| >>FDD TPC DL Step Size                 | M        |       | 9.2.2.16              |                       |             |                      |
| >>Inner Loop DL PC Status              | M        |       | 9.2.2.18B             |                       |             |                      |

| DCHs To Modify                         | O        |       | DCHs FDD To Modify 9.2.2.4E | YES reject             |             |                      |

<p>| DCHs To Add                            | O        |       | DCH FDD Information    | YES reject             |             |                      |</p>
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCHs To Delete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DCH ID</td>
<td>M</td>
<td>9.2.1.20</td>
</tr>
<tr>
<td>&gt;DCH ID M</td>
<td>9.2.1.20</td>
<td>–</td>
</tr>
<tr>
<td>RL Information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL ID M</td>
<td>M</td>
<td>9.2.1.53</td>
</tr>
<tr>
<td>&gt;DL Code Information</td>
<td>O</td>
<td>FDD DL Code Information 9.2.2.14A</td>
</tr>
<tr>
<td>&gt;Maximum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21 Maximum allowed power on DPCH or on F-DPCH</td>
</tr>
<tr>
<td>&gt;Minimum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21 Minimum allowed power on DPCH or on F-DPCH</td>
</tr>
<tr>
<td>&gt;Not Used</td>
<td>O</td>
<td>NULL</td>
</tr>
<tr>
<td>&gt;Transmit Diversity Indicator</td>
<td>C-Diversity mode</td>
<td>9.2.2.53</td>
</tr>
<tr>
<td>&gt;DL Reference Power</td>
<td>O</td>
<td>DL Power 9.2.1.21 Power on DPCH or on F-DPCH</td>
</tr>
<tr>
<td>&gt;RL Specific DCH Information</td>
<td>O</td>
<td>9.2.1.53G</td>
</tr>
<tr>
<td>&gt;DL DPCH Timing Adjustment</td>
<td>O</td>
<td>9.2.2.10A Required RL Timing Adjustment</td>
</tr>
<tr>
<td>&gt;Primary CPICH Usage For Channel Estimation</td>
<td>O</td>
<td>9.2.2.33A</td>
</tr>
<tr>
<td>&gt;Secondary CPICH Information Change</td>
<td>O</td>
<td>9.2.2.43A</td>
</tr>
<tr>
<td>&gt;E-DCH RL Indication</td>
<td>O</td>
<td>9.2.2.13De</td>
</tr>
<tr>
<td>&gt;RL Specific E-DCH Information</td>
<td>O</td>
<td>9.2.2.39a</td>
</tr>
<tr>
<td>&gt;F-DPCH Slot Format</td>
<td>O</td>
<td>9.2.2.93</td>
</tr>
<tr>
<td>&gt;HS-DSCH Preconfiguration Setup</td>
<td>O</td>
<td>9.2.2.112</td>
</tr>
<tr>
<td>&gt;Non-Serving RL Preconfiguration Setup</td>
<td>O</td>
<td>9.2.2.144</td>
</tr>
<tr>
<td>&gt;Non-Serving RL Preconfiguration Removal</td>
<td>O</td>
<td>Non-Serving RL Preconfiguration Setup 9.2.2.144</td>
</tr>
<tr>
<td>Transmission Gap Pattern Sequence Information</td>
<td>O</td>
<td>9.2.2.53A</td>
</tr>
<tr>
<td>Signalling Bearer Request Indicator</td>
<td>O</td>
<td>9.2.1.55A</td>
</tr>
<tr>
<td>HS-DSCH Information</td>
<td>O</td>
<td>HS-DSCH FDD Information 9.2.2.18D</td>
</tr>
<tr>
<td>HS-DSCH Information To Modify</td>
<td>O</td>
<td>9.2.1.31H</td>
</tr>
<tr>
<td>HS-DSCH MAC-d Flows To Add</td>
<td>O</td>
<td>HS-DSCH MAC-d Flows Information</td>
</tr>
</tbody>
</table>

**Notes:**
- **GLOBAL:** reject
- **EACH:** reject
- **YES:** ignore
- **NULL:** –
<table>
<thead>
<tr>
<th>E-DPCH Information</th>
<th>0..1</th>
<th>YES</th>
<th>reject</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;Maximum Set of E-DPDCCHs</td>
<td>O</td>
<td>9.2.2.20C</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>O</td>
<td>9.2.1.50</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-TFCS Information</td>
<td>O</td>
<td>9.2.2.13Dh</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-TTI</td>
<td>O</td>
<td>9.2.2.13Di</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DPCCH Power Offset</td>
<td>O</td>
<td>9.2.2.13Dj</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-RGCH 2-Index-Step Threshold</td>
<td>O</td>
<td>9.2.2.13Ig</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-RGCH 3-Index-Step Threshold</td>
<td>O</td>
<td>9.2.2.13Ih</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HARQ Info for E-DCH</td>
<td>O</td>
<td>9.2.2.18Ba</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HS-DSCH Configured Indicator</td>
<td>O</td>
<td>9.2.2.18Ca</td>
<td>–</td>
</tr>
<tr>
<td>&gt; Minimum Reduced E-DPDCCH Gain Factor</td>
<td>O</td>
<td>9.2.2.114</td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH FDD Information</td>
<td>O</td>
<td>E-DCH FDD Information 9.2.2.13Da</td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH FDD Information To Modify</td>
<td>O</td>
<td>9.2.2.13Df</td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH MAC-d Flows To Add</td>
<td>O</td>
<td>E-DCH MAC-d Flows Information 9.2.2.13M</td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH MAC-d Flows To Delete</td>
<td>O</td>
<td>9.2.1.73</td>
<td>YES</td>
</tr>
<tr>
<td>Serving E-DCH RL</td>
<td>O</td>
<td>9.2.2.48B</td>
<td>YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F-DPCH Information</th>
<th>0..1</th>
<th>YES</th>
<th>reject</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;Power Offset Information</td>
<td>1</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CPC Information</th>
<th>0..1</th>
<th>YES</th>
<th>ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;Continuous Packet Connectivity DTX-DRX Information</td>
<td>O</td>
<td>9.2.2.66</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Continuous Packet Connectivity DTX-DRX Information To Modify</td>
<td>O</td>
<td>9.2.2.67</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Continuous Packet Connectivity HS-SCCH less Information</td>
<td>O</td>
<td>9.2.2.68</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Continuous Packet Connectivity HS-SCCH</td>
<td>O</td>
<td>9.2.2.69A</td>
<td>YES</td>
</tr>
<tr>
<td>Table: Additional HS Cell Information RL Reconf Prep</td>
<td>0..&lt;maxno ofHSDSC H-1&gt;</td>
<td>For secondary serving HS-DSCH cell. Max 1 in this 3GPP release.</td>
<td>EACH</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td>------------------------</td>
<td>-------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>&gt;HS-PDSCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td>–</td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>O</td>
<td>9.2.1.9</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HS-DSC FDD Secondary Serving Information To Modify</td>
<td>O</td>
<td>9.2.2.18 Da</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HS-DSC FDD Secondary Serving Information To Modify</td>
<td>O</td>
<td>9.2.2.18 EB</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HS-DSC FDD Secondary Serving Information To Modify</td>
<td>O</td>
<td>NULL</td>
<td>–</td>
</tr>
<tr>
<td>UE Aggregate Maximum Bit Rate</td>
<td>O</td>
<td>9.2.1.123</td>
<td>YES</td>
</tr>
</tbody>
</table>

**Additional E-DCH Cell Information RL Reconf Prep**

<table>
<thead>
<tr>
<th>0..&lt;1&gt;</th>
<th>For E-DCH on multiple frequencies in this Node B.</th>
<th>YES</th>
<th>reject</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;CHOICE Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency</td>
<td>M</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Setup</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; MultiCell E-DCH Transport Bearer Mode</td>
<td>M 9.2.2.130</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt; Additional E-DCH Cell Information Setup</td>
<td>1..&lt;maxno ofEDCH-1&gt;</td>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release.</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt; Additional E-DCH FDD Setup Information</td>
<td>M 9.2.2.131</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Configuration Change</td>
<td></td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>
### Additional E-DCH Cell Information Configuration Change

<table>
<thead>
<tr>
<th>Modification of existing RLs</th>
<th>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release</th>
</tr>
</thead>
<tbody>
<tr>
<td>1..&lt;maxno ofEDCH-1&gt;</td>
<td></td>
</tr>
</tbody>
</table>

### Additional E-DCH Configuration Change Information

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CodeLen</td>
<td>The IE shall be present if the Min UL Channelisation Code Length IE is equals to 4.</td>
</tr>
<tr>
<td>SlotFormat</td>
<td>The IE shall be present if the DL DPCH Slot Format IE is equal to any of the values from 12 to 16.</td>
</tr>
<tr>
<td>Diversity mode</td>
<td>The IE shall be present if the Diversity Mode IE is present in the UL DPCH Information IE and is not set to &quot;none&quot;.</td>
</tr>
<tr>
<td>HSDSCH Radio Link</td>
<td>The IE shall be present if HS-PDSCH RL ID IE is present.</td>
</tr>
</tbody>
</table>

### Range Bound

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofDCHs</td>
<td>Maximum number of DCHs for a UE</td>
</tr>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of RLs for a UE</td>
</tr>
<tr>
<td>maxnoofHSDSCH-1</td>
<td>Maximum number of Secondary Serving HS-DSCH cells for one UE</td>
</tr>
<tr>
<td>maxnoofEDCH-1</td>
<td>Maximum number of uplink frequencies -1 for E-DCH for one UE</td>
</tr>
</tbody>
</table>
### 9.1.42.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
</tbody>
</table>

#### UL CCTrCH To Add

- **Message Discriminator**
  - M
  - 9.2.1.45

- **Message Type**
  - M
  - 9.2.1.46
  - YES reject

#### UL CCTrCH To Modify

- **Message Discriminator**
  - M
  - 9.2.1.45

#### UL CCTrCH ID

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCS</td>
<td>M</td>
<td>9.2.1.58</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCI Coding</td>
<td>M</td>
<td>9.2.3.22</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>M</td>
<td>9.2.1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### UL CCTrCH To Add Per RL

- **Message Discriminator**
  - M
  - 9.2.1.45

- **Message Type**
  - M
  - 9.2.1.46
  - YES reject

#### UL CCTrCH Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;UL CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### UL CCTrCH Information LCR

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;UL CCTrCH ID LCR</td>
<td>O</td>
<td>UL SIR 9.2.1.67A</td>
<td></td>
<td>Mandatory for 1.28Mrcps TDD. Not Applicable to 3.84Mrcps TDD or 7.68Mrcps TDD</td>
<td>YES</td>
<td>reject</td>
</tr>
</tbody>
</table>

#### UL CCTrCH Information 7.68Mrcps

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;UL CCTrCH ID 7.68Mrcps</td>
<td>O</td>
<td>9.2.1.53</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### UL CCTrCH Information 1.28Mrcps

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;UL CCTrCH ID 1.28Mrcps</td>
<td>O</td>
<td>9.2.1.67A</td>
<td></td>
<td>Mandatory for 1.28Mrcps TDD. Not Applicable to 3.84Mrcps TDD or 7.68Mrcps TDD</td>
<td>YES</td>
<td>reject</td>
</tr>
</tbody>
</table>

#### UL CCTrCH Information 3.84Mrcps

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;UL CCTrCH ID 3.84Mrcps</td>
<td>O</td>
<td>9.2.1.67A</td>
<td></td>
<td>Mandatory for 1.28Mrcps TDD. Not Applicable to 3.84Mrcps TDD or 7.68Mrcps TDD</td>
<td>YES</td>
<td>reject</td>
</tr>
</tbody>
</table>

#### UL CCTrCH Information 7.68Mrcps

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;UL CCTrCH ID 7.68Mrcps</td>
<td>O</td>
<td>9.2.1.53</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Type</td>
<td>3GPP TS 25.433</td>
<td>ETSI TS 125 433 V9.5.0 (2011-03)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------</td>
<td>------</td>
<td>----------------</td>
<td>----------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TFCS</td>
<td>O</td>
<td>9.2.1.58</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TFCI Coding</td>
<td>O</td>
<td>9.2.3.22</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Puncture Limit</td>
<td>O</td>
<td>9.2.1.50</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UL DPCH To Modify Per RL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL DPCH To Add</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repitition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repitition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UL Timeslot Information</td>
<td>M</td>
<td>9.2.3.26C</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UL DPCH To Modify</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL DPCH To Add</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repitition Period</td>
<td>O</td>
<td>9.2.3.16</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repitition Length</td>
<td>O</td>
<td>9.2.3.15</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD DPCH Offset</td>
<td>O</td>
<td>9.2.3.19A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UL Timeslot Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL DPCH To Add</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repitition Period</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repitition Length</td>
<td>M</td>
<td>9.2.3.7</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD DPCH Offset</td>
<td>M</td>
<td>9.2.1.57</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UL Code Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UL DPCH ID</td>
<td>M</td>
<td>9.2.3.5</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>O</td>
<td>9.2.3.19</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UL Timeslot Information LCR</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL DPCH To Add</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repitition Period</td>
<td>M</td>
<td>9.2.3.24A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repitition Length</td>
<td>M</td>
<td>9.2.3.7A</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code LCR</td>
<td>O</td>
<td>9.2.1.57</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UL Code Information LCR</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UL DPCH ID</td>
<td>M</td>
<td>9.2.3.5</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code LCR</td>
<td>O</td>
<td>9.2.3.19a</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD UL DPCH Time Slot Format LCR</td>
<td>O</td>
<td>9.2.3.21C</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UL Timeslot Information 7.68Mcps</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL DPCH To Add</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repitition Period</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repitition Length</td>
<td>M</td>
<td>9.2.3.35</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD UL DPCH Time Slot Format LCR</td>
<td>O</td>
<td>9.2.1.57</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UL Code Information 7.68Mcps</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL DPCH To Add</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UL Code Information 7.68Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1: See note 1 below

Applicable to 3.84Mcps TDD only

YES reject

3.84Mcps TDD only

GENERAL reject

1.28Mcps TDD only

7.68Mcps TDD only

GLOBAL reject

TPS
<table>
<thead>
<tr>
<th>Function</th>
<th>Type</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD Channelisation Code</td>
<td>O</td>
<td>9.2.3.34</td>
<td>7.68Mcps</td>
</tr>
<tr>
<td>UL DPCH To Delete</td>
<td>M</td>
<td>9.2.3.5</td>
<td></td>
</tr>
<tr>
<td>UL DPCH To Add LCR</td>
<td>O</td>
<td>0..1</td>
<td>Applicable to 1.28Mcps TDD only</td>
</tr>
<tr>
<td>Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
</tr>
<tr>
<td>Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
</tr>
<tr>
<td>TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td></td>
</tr>
<tr>
<td>TimeSlot Information LCR</td>
<td>M</td>
<td>9.2.3.26E</td>
<td></td>
</tr>
<tr>
<td>UL SIR Target</td>
<td>O</td>
<td>UL SIR</td>
<td>Applicable to 1.28Mcps TDD only</td>
</tr>
<tr>
<td>TDD TPC UL Step Size</td>
<td>O</td>
<td>9.2.3.21a</td>
<td>Applicable to 1.28Mcps TDD only</td>
</tr>
<tr>
<td>RL ID</td>
<td>O</td>
<td>9.2.1.53</td>
<td>YES ignore</td>
</tr>
<tr>
<td>UL DPCH To Add 7.68Mcps</td>
<td>O</td>
<td>0..1</td>
<td>Applicable to 7.68Mcps TDD only</td>
</tr>
<tr>
<td>Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
</tr>
<tr>
<td>Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
</tr>
<tr>
<td>TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td></td>
</tr>
<tr>
<td>TimeSlot Information 7.68Mcps</td>
<td>M</td>
<td>9.2.3.38</td>
<td></td>
</tr>
<tr>
<td>UL CCTrCH To Delete</td>
<td>O</td>
<td>0..&lt;maxno ofCCTrCH s&gt;</td>
<td>GLOBAL reject</td>
</tr>
<tr>
<td>CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td></td>
</tr>
<tr>
<td>DL CCTrCH To Add</td>
<td>0..&lt;maxno ofCCTrCH s&gt;</td>
<td>GLOBAL reject</td>
<td></td>
</tr>
<tr>
<td>CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td></td>
</tr>
<tr>
<td>TFCS</td>
<td>M</td>
<td>9.2.1.58</td>
<td></td>
</tr>
<tr>
<td>TFCI Coding</td>
<td>M</td>
<td>9.2.3.22</td>
<td></td>
</tr>
<tr>
<td>Puncture Limit</td>
<td>M</td>
<td>9.2.1.50</td>
<td></td>
</tr>
<tr>
<td>TPC CCTrCH List</td>
<td>0..&lt;maxno ofCCTrCH s&gt;</td>
<td>List of uplink CCTrCH which provide TPC</td>
<td></td>
</tr>
<tr>
<td>TPC CCTrCH ID</td>
<td>M</td>
<td>CCTrCH ID</td>
<td>9.2.3.3</td>
</tr>
<tr>
<td>DL DPCH To Add Per RL</td>
<td>0..&lt;maxno ofRLs&gt;</td>
<td>See Note 1 below</td>
<td></td>
</tr>
<tr>
<td>DL DPCH Information</td>
<td>0..1</td>
<td>Applicable to 3.84Mcps TDD only</td>
<td></td>
</tr>
<tr>
<td>Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
</tr>
<tr>
<td>Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
</tr>
<tr>
<td>TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td></td>
</tr>
<tr>
<td>Timeslot Information</td>
<td>M</td>
<td>9.2.3.4E</td>
<td></td>
</tr>
<tr>
<td>DL DPCH Information LCR</td>
<td>0..1</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
</tr>
<tr>
<td>Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
</tr>
<tr>
<td>Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
</tr>
<tr>
<td>TDD DPCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td></td>
</tr>
<tr>
<td>Timeslot Offset</td>
<td>M</td>
<td>9.2.3.4O</td>
<td></td>
</tr>
<tr>
<td>Information LCR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>&gt;&gt;CCTrCH Initial DL Transmission Power</strong></td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>YES</td>
</tr>
<tr>
<td><strong>&gt;&gt;TDD TPC DL Step Size</strong></td>
<td>O</td>
<td>9.2.3.21</td>
<td>YES</td>
</tr>
<tr>
<td>Parameter Description</td>
<td>Type</td>
<td>Value</td>
<td>Documentation</td>
</tr>
<tr>
<td>-----------------------</td>
<td>------</td>
<td>-------</td>
<td>---------------</td>
</tr>
<tr>
<td>&gt;&gt;CCTrCH Maximum DL Transmission Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;&gt;CCTrCH Minimum DL Transmission Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;&gt;RL ID</td>
<td>O</td>
<td>9.2.1.53</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;&gt;DL DPCCH Information 7.68Mcps</td>
<td>0..1</td>
<td>Applicable to 7.68Mcps TDD only</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD DPCCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;DL Timeslot Information 7.68Mcps</td>
<td>M</td>
<td>9.2.3.39</td>
<td>–</td>
</tr>
<tr>
<td>DL CCTrCH To Modify</td>
<td>0..&lt;maxno ofCCTrCHs&gt;</td>
<td>GLOBAL</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td>–</td>
</tr>
<tr>
<td>&gt;TFCS</td>
<td>O</td>
<td>9.2.1.58</td>
<td>–</td>
</tr>
<tr>
<td>&gt;TFCI Coding</td>
<td>O</td>
<td>9.2.3.22</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>O</td>
<td>9.2.1.50</td>
<td>–</td>
</tr>
<tr>
<td>&gt;TFCI CCTrCH List</td>
<td>0..&lt;maxno ofCCTrCHs&gt;</td>
<td>List of uplink CCTrCH which provide TPC</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;TPC CCTrCH ID</td>
<td>M</td>
<td>CCTrCH ID 9.2.3.3</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;DL DPCCH To Modify Per RL</td>
<td>0..&lt;maxno ofRLs&gt;</td>
<td>See Note 1 below</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;DL DPCCH To Add</td>
<td>0..1</td>
<td>Applicable to 3.84Mcps TDD only</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD DPCCH Offset</td>
<td>M</td>
<td>9.2.3.19A</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;DL Timeslot Information</td>
<td>M</td>
<td>9.2.3.4E</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;DL DPCCH To Modify</td>
<td>0..1</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repetition Period</td>
<td>O</td>
<td>9.2.3.16</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Repetition Length</td>
<td>O</td>
<td>9.2.3.15</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD DPCCH Offset</td>
<td>O</td>
<td>9.2.3.19A</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;DL Timeslot Information</td>
<td>0..&lt;maxno ofDLTs&gt;</td>
<td>Applicable to 3.84Mcps TDD only</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type</td>
<td>O</td>
<td>9.2.3.7</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;TFCI Presence</td>
<td>O</td>
<td>9.2.1.57</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;DL Code Information</td>
<td>0..&lt;maxno ofDPCHs&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;DPCH ID</td>
<td>M</td>
<td>9.2.3.5</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;TDD Channelisation Code</td>
<td>O</td>
<td>9.2.3.19</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;DL Timeslot Information LCR</td>
<td>0..&lt;maxno ofDLtsLCR&gt;</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>GLOBAL</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Midamble Shift LCR</td>
<td>O</td>
<td>9.2.3.7A</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;TFCI Presence</td>
<td>O</td>
<td>9.2.1.57</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;DL Code Information LCR</td>
<td>0..&lt;maxno ofDPCHsLCR&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Field</td>
<td>Type</td>
<td>Structure</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>------</td>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-DPCH ID</td>
<td>M</td>
<td>9.2.3.5</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-TDD Channelisation Code LCR</td>
<td>O</td>
<td>9.2.3.19a</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-TDD Time Slot Format LCR</td>
<td>O</td>
<td>9.2.3.19D</td>
<td>YES reject</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Maximum DL Power to Modify LCR</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Maximum allowed power on DPCH YES ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Minimum DL Power to Modify LCR</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Minimum allowed power on DPCH YES ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;-DL Timeslot Information 7.68Mcps</td>
<td>0..&lt;maxno ofDLts&gt;</td>
<td>Applicable to 7.68Mcps TDD only GLOBAL reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;-Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>O</td>
<td>9.2.3.35</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;TFCI Presence</td>
<td>O</td>
<td>9.2.1.57</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;-DL Code Information 7.68Mcps</td>
<td>0..&lt;maxno ofDPCHs7 68&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;-DPCH ID 7.68Mcps</td>
<td>M</td>
<td>9.2.3.42</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;-TDD Channelisation Code 7.68Mcps</td>
<td>O</td>
<td>9.2.3.34</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;-DL DPCH To Delete 0..&lt;maxno ofDPCHs&gt;</td>
<td>GLOBAL reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;-DPCH ID M</td>
<td>9.2.3.5</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-DL DPCH To Add LCR 0..1</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;-Repetition Period M</td>
<td>9.2.3.16</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;-Repetition Length M</td>
<td>9.2.3.15</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;-TDD DPCH Offset M</td>
<td>9.2.3.19A</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;-TDD Timeslot Information LCR M</td>
<td>9.2.3.40</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;-TDD TPC DL Step Size O</td>
<td>9.2.3.21</td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;-Maximum CCTrCH DL Power to Modify O</td>
<td>DL Power 9.2.1.21</td>
<td>YES ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;-Minimum CCTrCH DL Power to Modify O</td>
<td>DL Power 9.2.1.21</td>
<td>YES ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;-RL ID O</td>
<td>9.2.1.53</td>
<td>YES ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-DL DPCH To Add 7.68Mcps 0..1</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;-Repetition Period M</td>
<td>9.2.3.16</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;-Repetition Length M</td>
<td>9.2.3.15</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;-TDD DPCH Offset M</td>
<td>9.2.3.19A</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;-TDD Timeslot Information 7.68Mcps M</td>
<td>9.2.3.39</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>DL CCTrCH To Delete 0..&lt;maxno ofCCTrCH s&gt;</td>
<td>GLOBAL reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID M</td>
<td>9.2.3.3</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>DCHs To Modify O</td>
<td>DCHs TDD To Modify 9.2.3.4D</td>
<td>YES reject</td>
<td></td>
</tr>
</tbody>
</table>
### DCHs To Add

| O | DCH TDD Information 9.2.3.4C | YES | reject |

### DCHs To Delete

| 0..<maxno ofDCHs | GLOBAL | reject |

#### DCH ID

| M | 9.2.1.20 | – |

### DSCH To Modify

| 0..<maxno ofDSCHs | GLOBAL | reject |

#### >DSCH ID

| M | 9.2.3.5a | – |

#### >CCTrCH ID

| O | 9.2.3.3 | DL CCTrCH in which the DSCH is mapped | – |

#### >Transport Format Set

| O | 9.2.1.59 | – |

#### >Allocation/Retention Priority

| O | 9.2.1.1A | – |

#### >Frame Handling Priority

| O | 9.2.1.30 | – |

#### >ToAWS

| O | 9.2.1.61 | – |

#### >ToAWE

| O | 9.2.1.60 | – |

#### >Transport Bearer Request Indicator

| M | 9.2.1.62A | – |

#### >Binding ID

| O | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |

#### >Transport Layer Address

| O | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |

#### >TNL QoS

| O | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |

### DSCH To Add

| O | DSCH TDD Information 9.2.3.5A | YES | reject |

### DSCH To Delete

| 0..<maxno ofDSCHs | GLOBAL | reject |

#### >DSCH ID

| M | 9.2.3.5a | – |

### USCH To Modify

| 0..<maxno ofUSCHs | GLOBAL | reject |

#### >USCH ID

| M | 9.2.3.27 | – |

#### >Transport Format Set

| O | 9.2.1.59 | – |

#### >Allocation/Retention Priority

| O | 9.2.1.1A | – |

#### >CCTrCH ID

| O | 9.2.3.3 | UL CCTrCH in which the USCH is mapped | – |

#### >Transport Bearer Request Indicator

| M | 9.2.1.62A | – |

#### >Binding ID

| O | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |

#### >Transport Layer Address

<p>| O | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP. | YES | ignore |</p>
<table>
<thead>
<tr>
<th></th>
<th>O</th>
<th>9.2.1.58A</th>
<th>YES</th>
<th>ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>USCH To Add</td>
<td>O</td>
<td>USCH Information 9.2.3.28</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>USCH To Delete</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;USCH ID</td>
<td>M</td>
<td>9.2.3.27</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>RL Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Downlink Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Minimum Downlink Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Initial DL Transmission Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;RL Specific DCH Information</td>
<td>O</td>
<td>9.2.1.53G</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;UL Synchronisation Parameters LCR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Uplink Synchronisation Step Size</td>
<td>M</td>
<td>9.2.3.26H</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Uplink Synchronisation Frequency</td>
<td>M</td>
<td>9.2.3.26G</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;DL Time Slot ISCP Info LCR</td>
<td>O</td>
<td>9.2.3.4P Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65 Applicable to 1.28Mcps TDD when using multiple frequencies. Corresponds to Ni [15]</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>Signalling Bearer Request Indicator</td>
<td>O</td>
<td>9.2.1.55A</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>HS-DSCH Information</td>
<td>O</td>
<td>HS-DSCH TDD Information 9.2.3.5F</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>HS-DSCH Information To Modify</td>
<td>O</td>
<td>9.2.1.31H</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>HS-DSCH MAC-d Flows To Add</td>
<td>O</td>
<td>HS-DSCH MAC-d Flows Information 9.2.1.31IA</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>HS-DSCH MAC-d Flows To Delete</td>
<td>O</td>
<td>9.2.1.31IB</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>HS-DSCH-RNTI</td>
<td>C-HSDSCH RadioLink 9.2.1.31J</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>HS-PDSCH RL ID</td>
<td>O</td>
<td>RL ID 9.2.1.53</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>PDSCH-RL-ID</td>
<td>O</td>
<td>RL ID 9.2.1.53</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>E-DCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-PUCH Information</td>
<td>O</td>
<td>9.2.3.45</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;E-TFCS Information TDD</td>
<td>O</td>
<td>9.2.3.46</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Value</td>
<td>Reference</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-------</td>
<td>-----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows to Add</td>
<td>O</td>
<td>9.2.3.47</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows to Delete</td>
<td>O</td>
<td>9.2.1.73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Non-scheduled Grant Information TDD</td>
<td>O</td>
<td>9.2.3.48</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information</td>
<td>O</td>
<td>9.2.3.49</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information to Modify</td>
<td>O</td>
<td>9.2.3.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Serving RL</td>
<td>O</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>E-DCH Information 7.68Mcps</strong></td>
<td>0..1</td>
<td>7.68Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;E-DCH Information</td>
<td>O</td>
<td>9.2.3.45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-TFCS Information TDD</td>
<td>O</td>
<td>9.2.3.46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows to Add</td>
<td>O</td>
<td>9.2.3.47</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows to Delete</td>
<td>O</td>
<td>9.2.1.73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Non-scheduled Grant Information 7.68Mcps TDD</td>
<td>O</td>
<td>9.2.3.64</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information</td>
<td>O</td>
<td>9.2.3.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information to Modify</td>
<td>O</td>
<td>9.2.3.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>E-DCH Information 1.28Mcps</strong></td>
<td>0..1</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;E-PUCH Information LCR</td>
<td>O</td>
<td>9.2.3.45a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-TFCS Information TDD</td>
<td>O</td>
<td>9.2.3.46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows to Add</td>
<td>O</td>
<td>9.2.3.47</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows to Delete</td>
<td>O</td>
<td>9.2.1.73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Non-scheduled Grant Information LCR TDD</td>
<td>O</td>
<td>9.2.3.48a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information LCR</td>
<td>O</td>
<td>9.2.3.49a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information to Modify</td>
<td>O</td>
<td>9.2.3.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Control GAP</td>
<td>O</td>
<td>INTEGER (1..255)</td>
<td>Unit: Number of subframes Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
</tr>
<tr>
<td><strong>CPC Information</strong></td>
<td>0..1</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Continuous Packet Connectivity DRX Information LCR</td>
<td>O</td>
<td>9.2.3.93</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Continuous Packet Connectivity DRX Information To Modify LCR</td>
<td>O</td>
<td>9.2.3.94</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Semi-Persistent scheduling Information LCR</td>
<td>O</td>
<td>9.2.3.96</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Semi-Persistent scheduling Information to modify LCR</td>
<td>O</td>
<td>9.2.3.96a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR</td>
<td>O</td>
<td>9.2.2.100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Semi-Persistent scheduling Information LCR</td>
<td>O</td>
<td>9.2.3.97</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Semi-Persistent scheduling Information to modify LCR</td>
<td>O</td>
<td>9.2.3.97a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Semi-Persistent</td>
<td>O</td>
<td>9.2.3.101</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Condition | Explanation
--- | ---
HSDSCHRadioLink | The IE shall be present if HS-PDSCH RL ID IE is present.

### Range Bound | Explanation
--- | ---
maxnoofDCHs | Maximum number of DCHs for a UE
maxnoofCCTrCHs | Maximum number of CCTrCHs for a UE
maxnoofDPCHs | Maximum number of DPCHs in one CCTrCH for 3.84Mcps TDD.
maxnoofDPCHsLCR | Maximum number of DPCHs in one CCTrCH for 7.68Mcps TDD
maxnoofDPCHs768 | Maximum number of downlink DPCHs in one CCTrCH for 7.68Mcps TDD
maxnoofDSCHs | Maximum number of DSCHs for one UE
maxnoofUSCHs | Maximum number of USCHs for one UE
maxnoofDLts | Maximum number of Downlink time slots per Radio Link for 3.84Mcps TDD
maxnoofDLtsLCR | Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD
maxnoofULts | Maximum number of Uplink time slots per Radio Link for 3.84Mcps TDD
maxnoofULtsLCR | Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD
maxnoofRLs | Maximum number of RLs for one UE
### 9.1.43 RADIO LINK RECONFIGURATION READY

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

### RL Information Response

<table>
<thead>
<tr>
<th>IE/Type</th>
<th>Presence</th>
<th>Range</th>
<th>Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>–</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;DCH Information Response</td>
<td>O</td>
<td>9.2.1.20C</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;DSCH Information Response</td>
<td>O</td>
<td>9.2.3.5b</td>
<td>TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;USCH Information Response</td>
<td>O</td>
<td>9.2.3.29</td>
<td>TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Not Used</td>
<td>O</td>
<td>NULL</td>
<td>–</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;DL Power Balancing Updated Indicator</td>
<td>O</td>
<td>9.2.2.12D</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH RL Set ID</td>
<td>O</td>
<td>RL Set ID 9.2.2.39</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH FDD DL Control Channel Information</td>
<td>O</td>
<td>9.2.2.13Dc</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH FDD Information Response</td>
<td>O</td>
<td>9.2.2.13Db</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Preconfiguration Info</td>
<td>O</td>
<td>9.2.2.111</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;Non-Serving RL Preconfiguration Info</td>
<td>O</td>
<td>9.2.2.145</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Target Communication Control Port ID</td>
<td>O</td>
<td>Communica</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>tion Control Port ID</td>
<td></td>
<td>tion Control Port ID 9.2.1.15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH FDD Information Response</td>
<td>O</td>
<td>9.2.2.18E</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>HS-DSCH TDD Information Response</td>
<td>O</td>
<td>9.2.3.5G</td>
<td>TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>E-DCH TDD Information Response</td>
<td>O</td>
<td>E-DCH TDD Information Response 9.2.3.50</td>
<td>TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>MAC-hs Reset Indicator</td>
<td>O</td>
<td>9.2.1.38Ac</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Fast Reconfiguration Permission</td>
<td>O</td>
<td>9.2.2.63</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Continuous Packet Connectivity HS-SCCH less Information Response</td>
<td>O</td>
<td>9.2.2.69</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

### Additional HS Cell Information Response

<table>
<thead>
<tr>
<th>IE/Type</th>
<th>Presence</th>
<th>Range</th>
<th>Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;HS-PDSCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td>For secondary serving HS-DSCH cell. Max 1 in this 3GPP release.</td>
<td>EACH</td>
<td>ignore</td>
</tr>
</tbody>
</table>

---

**Note:** The table above is a summary of the criticalities and semantics for various IE types and group names as outlined in the ETSI TS 25.433 V9.5.0 (2011-03) document. The table includes the presence, range, and specific details for each IE/Group Name, along with their respective criticality and assigned criticality values.
### Additional E-DCH Cell Information Response RLRconf

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>CHOICE Cause Level</td>
<td>M</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;General</td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>YES ignore</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;RL Specific</td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;RLs Causing Reconfiguration Failure</td>
<td>0..&lt;maxnoofRLs&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

## Range Bound

<table>
<thead>
<tr>
<th>maxnoofRLs</th>
<th>Maximum number of RLs for a UE</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofHSDSCH-1</td>
<td>Maximum number of Secondary Serving HS-DSCH cells for one UE</td>
</tr>
<tr>
<td>maxnoofEDCH-1</td>
<td>Maximum number of uplink frequencies -1 for E-DCH for one UE</td>
</tr>
</tbody>
</table>

### 9.1.44 RADIO LINK RECONFIGURATION FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>CHOICE Cause Level</td>
<td>M</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;General</td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>YES ignore</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;RL Specific</td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;RLs Causing Reconfiguration Failure</td>
<td>0..&lt;maxnoofRLs&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

## Range Bound

<table>
<thead>
<tr>
<th>maxnoofRLs</th>
<th>Maximum number of RLs for a UE</th>
</tr>
</thead>
</table>

---

3GPP TS 25.433 version 9.5.0 Release 9

ETSI TS 125 433 V9.5.0 (2011-03)
### 9.1.45 RADIO LINK RECONFIGURATION COMMIT

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Message type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>CFN</td>
<td>M</td>
<td></td>
<td>9.2.1.7</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Active Pattern Sequence Information</td>
<td>O</td>
<td></td>
<td>9.2.2.A</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Fast Reconfiguration Mode</td>
<td>O</td>
<td></td>
<td>9.2.2.62</td>
<td>FDD only</td>
<td>YES</td>
<td>reject</td>
</tr>
</tbody>
</table>

### 9.1.46 RADIO LINK RECONFIGURATION CANCEL

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Message type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>
## 9.1.47 RADIO LINK RECONFIGURATION REQUEST

### 9.1.47.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>UL DPCH Information</td>
<td></td>
<td>0..1</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCS</td>
<td>O</td>
<td>9.2.1.58</td>
<td></td>
<td>For the UL.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL DPDCCH Indicator For E-DCH Operation</td>
<td>O</td>
<td>9.2.2.61</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DL DPCH Information</td>
<td></td>
<td>0..1</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCS</td>
<td>O</td>
<td>9.2.1.58</td>
<td></td>
<td>For the DL.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCI Signalling Mode</td>
<td>O</td>
<td>9.2.2.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Limited Power Increase</td>
<td>O</td>
<td>9.2.2.18A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DCHs To Modify</td>
<td>O</td>
<td>DCHs FDD To Modify</td>
<td>9.2.2.4E</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DCHs To Add</td>
<td>O</td>
<td>DCH FDD Information</td>
<td>9.2.2.4D</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DCHs To Delete</td>
<td></td>
<td>0..&lt;maxno ofDCHs&gt;</td>
<td></td>
<td>GLOBAL reject</td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>&gt;DCH ID</td>
<td>M</td>
<td>9.2.1.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio Link Information</td>
<td></td>
<td>0..&lt;maxno ofRLs&gt;</td>
<td></td>
<td>EACH reject</td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Maximum allowed power on DPCH or on F-DPCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Minimum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Minimum allowed power on DPCH or on F-DPCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Code Information</td>
<td>C-SF/2</td>
<td>FDD DL Code Information</td>
<td>9.2.2.14A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Reference Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Power on DPCH or on F-DPCH</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL Specific DCH Information</td>
<td>O</td>
<td>9.2.1.53G</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH RL Indication</td>
<td>O</td>
<td>9.2.2.13De</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL Specific E-DCH Information</td>
<td>O</td>
<td>9.2.2.39a</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;F-DPCH Slot Format</td>
<td>O</td>
<td>9.2.2.93</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCCH Preconfiguration Setup</td>
<td>O</td>
<td>9.2.2.112</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Non-Serving RL Preconfiguration Setup</td>
<td>O</td>
<td>9.2.2.144</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Non-Serving RL Preconfiguration Removal</td>
<td>O</td>
<td>Non-Serving RL Preconfiguration</td>
<td>9.2.2.144</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Value</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmission Gap Pattern Sequence Information</td>
<td>O</td>
<td>9.2.2.53A</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signalling Bearer Request Indicator</td>
<td>O</td>
<td>9.2.1.55A</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Information</td>
<td>O</td>
<td>HS-DSCH FDD Information 9.2.2.18D</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Information To Modify Unsynchronised</td>
<td>O</td>
<td>9.2.1.31HA</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH MAC-d Flows To Add</td>
<td>O</td>
<td>HS-DSCH MAC-d Flows Information 9.2.2.31IA</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH MAC-d Flows To Delete</td>
<td>O</td>
<td>9.2.1.31B</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH-RNTI</td>
<td>C-HSDSCH RadioLink</td>
<td>9.2.1.31J</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-PDSCH RL ID</td>
<td>O</td>
<td>RL ID 9.2.1.53</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DPCH Information</td>
<td>0..1</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Set of E-DPDCHs</td>
<td>O</td>
<td>9.2.2.20C</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>O</td>
<td>9.2.1.50</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-TFCS Information</td>
<td>O</td>
<td>9.2.2.13Dh</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-TTI</td>
<td>O</td>
<td>9.2.2.13Di</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DPCCH Power Offset</td>
<td>O</td>
<td>9.2.2.13Dj</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RGCH 2-Index-Step Threshold</td>
<td>O</td>
<td>9.2.2.13Ig</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RGCH 3-Index-Step Threshold</td>
<td>O</td>
<td>9.2.2.13Ih</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HARQ Info for E-DCH</td>
<td>O</td>
<td>9.2.2.18ba</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Configured Indicator</td>
<td>O</td>
<td>9.2.2.18Ca</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Minimum Reduced E-DPDCH Gain Factor</td>
<td>O</td>
<td>9.2.2.114</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH FDD Information</td>
<td>O</td>
<td>E-DCH FDD Information 9.2.2.13Da</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH FDD Information To Modify</td>
<td>O</td>
<td>9.2.2.13Df</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH MAC-d Flows To Add</td>
<td>O</td>
<td>E-DCH FDD MAC-d Flows Information 9.2.2.13M</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH MAC-d Flows To Delete</td>
<td>O</td>
<td>9.2.1.73</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serving E-DCH RL</td>
<td>O</td>
<td>9.2.2.48B</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPC Information</td>
<td>0..1</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Continuous Packet Connectivity DTX-DRX Information</td>
<td>O</td>
<td>9.2.2.66</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Continuous Packet Connectivity DTX-DRX Information To Modify</td>
<td>O</td>
<td>9.2.2.67</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Continuous Packet Connectivity HS-SCCH less Information</td>
<td>O</td>
<td>9.2.2.68</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Type</td>
<td>Description</td>
<td>Value</td>
<td>Action</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>----------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Packet Connectivity HS-SCCH less Deactivate Indicator</td>
<td>O</td>
<td>9.2.2.69A</td>
<td>YES, reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No of Target Cell HS-SCCH Order</td>
<td>O</td>
<td>INTEGER</td>
<td>YES, ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional HS Cell Information RL Reconf Req</td>
<td>0..&lt;maxno ofHSDSC H-1&gt;</td>
<td>For secondary serving HS-DSCH cell. Max 1 in this 3GPP release.</td>
<td>EACH, reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-PDSCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>O</td>
<td>9.2.2.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH FDD Secondary Serving Information</td>
<td>O</td>
<td>9.2.2.18Da</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised</td>
<td>O</td>
<td>9.2.2.18EC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Secondary Serving Remove</td>
<td>O</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UE Aggregate Maximum Bit Rate</td>
<td>O</td>
<td>9.2.1.123</td>
<td>YES, ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional E-DCHCell Information RL Reconf Req</td>
<td>0..1</td>
<td>For E-DCH on multiple frequencies in this Node B.</td>
<td>YES, reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CHOICE Setup, Configuration Change or Removal of E-DCH On Secondary UL Frequency</td>
<td>M</td>
<td></td>
<td>YES, reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Setup</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt; MultiCell E-DCH Transport Bearer Mode</td>
<td>M</td>
<td>9.2.2.130</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt; Additional E-DCH Cell Information Setup</td>
<td>1..&lt;maxno ofEDCH-1&gt;</td>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; Additional E-DCH FDD Setup Information</td>
<td>M</td>
<td>9.2.2.131</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Configuration Change</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Additional E-DCH Cell Information Change</td>
<td>1..&lt;maxno ofEDCH-1&gt;</td>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release.</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Additional E-DCH Configuration Change Information</td>
<td>M</td>
<td>9.2.2.136</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Removal</td>
<td></td>
<td></td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Additional E-DCH Cell Information Removal</td>
<td>1..&lt;maxno ofEDCH-1&gt;</td>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release.</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; RL on Secondary UL Frequency</td>
<td>M</td>
<td>ENUMERATED (Remove, ...)</td>
<td>Removal of all RL on secondary UL frequency</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound** | **Explanation**
---|---
maxnoofDCHs | Maximum number of DCHs for a UE
maxnoofRLs | Maximum number of RLs for a UE
maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE
maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE

**Condition** | **Explanation**
---|---
SF/2 | The IE shall be present if the Transmission Gap Pattern Sequence Information IE is included and the indicated Downlink Compressed Mode method for at least one of the included Transmission Gap Pattern Sequence is set to "SF/2".
HSDSCH Radio Link | The IE shall be present if HS-PDSCH RL ID IE is present.
## 9.1.47.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td><strong>UL CCTrCH To Modify</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCS</td>
<td>O</td>
<td>9.2.1.58</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>O</td>
<td>9.2.1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL SIR Target</td>
<td>O</td>
<td>UL SIR 9.2.1.67A</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td><strong>UL CCTrCH To Delete</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DL CCTrCH To Modify</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCS</td>
<td>O</td>
<td>9.2.1.58</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>O</td>
<td>9.2.1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL CCTrCH To Modify Per RL</td>
<td></td>
<td>0..&lt;maxno ofRLs&gt;</td>
<td>See note 1 below</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;DL DPCH To Modify LCR</td>
<td></td>
<td>0..1</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;DL Timeslot Information LCR</td>
<td></td>
<td>0..&lt;maxno ofDLtsLCR&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Maximum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Maximum allowed power on DPCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Minimum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Minimum allowed power on DPCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CCTrCH Maximum DL Transmission Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;CCTrCH Minimum DL Transmission Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;RL ID</td>
<td>O</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td><strong>DL CCTrCH To Delete</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DCHs To Modify</td>
<td>O</td>
<td>DCHs TDD To Modify 9.2.3.4D</td>
<td>YES</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>DCHs To Add</td>
<td>O</td>
<td>DCH TDD Information 9.2.3.4C</td>
<td>YES</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>DCHs To Delete</td>
<td>0..&lt;maxno ofDCHs&gt;</td>
<td>GLOBAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## DCH Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;DCH ID</td>
<td>M</td>
<td>9.2.1.20</td>
<td></td>
</tr>
<tr>
<td>RL Information</td>
<td></td>
<td>0..&lt;maxnoofRLs&gt;</td>
<td>See note 1 below</td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Downlink Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>&gt;Minimum Downlink Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>&gt;RL Specific DCH Information</td>
<td>O</td>
<td>9.2.1.53G</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;UL Synchronisation Parameters LCR</td>
<td></td>
<td>0..1</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Uplink Synchronisation Step Size</td>
<td>M</td>
<td>9.2.3.26H</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Uplink Synchronisation Frequency</td>
<td>M</td>
<td>9.2.3.26G</td>
<td></td>
</tr>
<tr>
<td>Signalling Bearer Request Indicator</td>
<td>O</td>
<td>9.2.1.55A</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH Information</td>
<td>O</td>
<td>HS-DSCH TDD Information 9.2.3.5F</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH Information To Modify Unsynchronised</td>
<td>O</td>
<td>9.2.1.31HA</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH MAC-d Flows To Add</td>
<td>O</td>
<td>HS-DSCH MAC-d Flows Information 9.2.1.31A</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH MAC-d Flows To Delete</td>
<td>O</td>
<td>9.2.1.31IB</td>
<td>YES</td>
</tr>
<tr>
<td>HS-DSCH-RNTI</td>
<td>C-HSDSCH-RadioLink</td>
<td>9.2.1.31J</td>
<td>YES</td>
</tr>
<tr>
<td>HS-PDSCH RL ID</td>
<td>O</td>
<td>RL ID 9.2.1.53</td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH Information</td>
<td></td>
<td>0..1</td>
<td>3.84Mcps TDD only</td>
</tr>
<tr>
<td>&gt;E-PUCH Information</td>
<td>O</td>
<td>9.2.3.45</td>
<td></td>
</tr>
<tr>
<td>&gt;E-TFCS Information TDD</td>
<td>O</td>
<td>9.2.3.46</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows to Add</td>
<td>O</td>
<td>9.2.3.47</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows to Delete</td>
<td>O</td>
<td>9.2.1.73</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Non-scheduled Grant Information TDD</td>
<td>O</td>
<td>9.2.3.48</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information</td>
<td>O</td>
<td>9.2.3.49</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH TDD Information to Modify</td>
<td>O</td>
<td>9.2.3.52</td>
<td></td>
</tr>
<tr>
<td>E-DCH Serving RL</td>
<td>O</td>
<td>9.2.1.53</td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH Information 7.68Mcps</td>
<td></td>
<td>0..1</td>
<td>7.68Mcps TDD only</td>
</tr>
<tr>
<td>&gt;E-PUCH Information</td>
<td>O</td>
<td>9.2.3.45</td>
<td></td>
</tr>
<tr>
<td>&gt;E-TFCS Information TDD</td>
<td>O</td>
<td>9.2.3.46</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows to Add</td>
<td>O</td>
<td>9.2.3.47</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flows to Delete</td>
<td>O</td>
<td>9.2.1.73</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Non-scheduled Grant Information 7.68Mcps TDD</td>
<td>O</td>
<td>9.2.3.64</td>
<td></td>
</tr>
</tbody>
</table>

---

**Note:**
- For 7.68Mcps, the information is applicable only for a specific range of DL Power values, not specified in the table.
- For 3.84Mcps, the information is applicable only for a specific range of DL Power values, not specified in the table.
- For 1.28Mcps TDD, some parameters are mandatory, while others are not applicable.
- For 3.84Mcps TDD or 7.68Mcps TDD, certain parameters are mandatory, while others are not applicable.

---

**ETSI**
<table>
<thead>
<tr>
<th><strong>E-DCH Information 1.28Mcps</strong></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH TDD Information</td>
<td>O</td>
<td>9.2.3.65</td>
<td>–</td>
</tr>
<tr>
<td>E-DCH TDD Information to Modify</td>
<td>O</td>
<td>9.2.3.52</td>
<td>–</td>
</tr>
<tr>
<td>E-PDCH Information LCR</td>
<td>O</td>
<td>9.2.3.45a</td>
<td>–</td>
</tr>
<tr>
<td>E-TFCS Information TDD</td>
<td>O</td>
<td>9.2.3.46</td>
<td>–</td>
</tr>
<tr>
<td>E-DCH MAC-d Flows to Add</td>
<td>O</td>
<td>9.2.3.47</td>
<td>–</td>
</tr>
<tr>
<td>E-DCH MAC-d Flows to Delete</td>
<td>O</td>
<td>9.2.1.73</td>
<td>–</td>
</tr>
<tr>
<td>E-DCH Non-scheduled Grant Information LCR TDD</td>
<td>O</td>
<td>9.2.3.48a</td>
<td>–</td>
</tr>
<tr>
<td>E-DCH TDD Information LCR</td>
<td>O</td>
<td>9.2.3.49a</td>
<td>–</td>
</tr>
<tr>
<td>E-DCH TDD Information to Modify</td>
<td>O</td>
<td>9.2.3.52</td>
<td>–</td>
</tr>
</tbody>
</table>

### Power Control GAP

| **Power Control GAP** | O | INTEGER (1..255) | Unit: Number of subframes Applicable to 1.28Mcps TDD only | YES | ignore |

<table>
<thead>
<tr>
<th><strong>CPC Information</strong></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Packet Connectivity DRX Information LCR</td>
<td>O</td>
<td>9.2.3.93</td>
<td>–</td>
</tr>
<tr>
<td>Continuous Packet Connectivity DRX Information To Modify LCR</td>
<td>O</td>
<td>9.2.3.94</td>
<td>–</td>
</tr>
<tr>
<td>HS-DCH Semi-Persistent scheduling Information LCR</td>
<td>O</td>
<td>9.2.3.96</td>
<td>–</td>
</tr>
<tr>
<td>HS-DCH Semi-Persistent scheduling Information to modify LCR</td>
<td>O</td>
<td>9.2.3.96a</td>
<td>–</td>
</tr>
<tr>
<td>HS-DCH Semi-Persistent scheduling Deactivate Indicator LCR</td>
<td>O</td>
<td>9.2.2.100</td>
<td>YES</td>
</tr>
<tr>
<td>E-DCH Semi-Persistent scheduling Information LCR</td>
<td>O</td>
<td>9.2.3.97</td>
<td>–</td>
</tr>
<tr>
<td>E-DCH Semi-Persistent scheduling Information to modify LCR</td>
<td>O</td>
<td>9.2.3.97a</td>
<td>–</td>
</tr>
<tr>
<td>E-DCH Semi-Persistent scheduling Deactivate Indicator LCR</td>
<td>O</td>
<td>9.2.3.101</td>
<td>YES</td>
</tr>
</tbody>
</table>

| **Idle Interval Information** | O | 9.2.3.102 | TDD only | YES | Ignored |

| **UE Selected MBMS Service Information** | O | 9.2.3.104 | This IE indicates the Time Slot information and/or TDM information of UE selected MBMS service in the other frequency. For 1.28Mcps TDD only. | YES | Ignored |

| **HS-SCCH TPC step size** | O | 9.2.3.21 | 1.28 Mcps TDD only. This IE is mandatory if “E-DCH Information 1.28Mcps” IE is absent. | YES | ignore |
DCH Measurement Occasion Information

<table>
<thead>
<tr>
<th>Information</th>
<th>O</th>
<th>9.2.3.111</th>
<th>Applicable for 1.28 Mcps TDD when HS-SCCH(s), E-AGCH(s) or HS-PDSCH are configured on TS0.</th>
<th>YES</th>
<th>reject</th>
</tr>
</thead>
</table>

| HS-DSCH-RNTI for FACH | O | HS-DSCH-RNTI 9.2.1.31J | 1.28 Mcps TDD only | YES | ignore |

NOTE 1: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofRLs are represented by separate ASN.1 structures with different criticality.

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofCCTrCHs</td>
<td>Maximum number of CCTrCHs for a UE</td>
</tr>
<tr>
<td>maxnoofDLtsLCR</td>
<td>Maximum number of Downlink time slots per Radio Link for 1.28 Mcps TDD</td>
</tr>
<tr>
<td>maxnoofDCHs</td>
<td>Maximum number of DCHs for a UE</td>
</tr>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of RLs for one UE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSDSCHRadioLink</td>
<td>The IE shall be present if HS-PDSCH RL ID IE is present.</td>
</tr>
</tbody>
</table>
### 9.1.48 RADIO LINK RECONFIGURATION RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RL Information Response</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DCH Information Response</td>
<td>O</td>
<td>9.2.1.20C</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Power Balancing Updated Indicator</td>
<td>O</td>
<td>9.2.2.12D</td>
<td>FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH RL Set ID</td>
<td>O</td>
<td>RL Set ID 9.2.2.39</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH FDD DL Control Channel Information</td>
<td>O</td>
<td>9.2.2.13Dc</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH FDD Information Response</td>
<td>O</td>
<td>9.2.2.13Db</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Preconfiguration Info</td>
<td>O</td>
<td>9.2.2.111</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Non-Serving RL Preconfiguration Info</td>
<td>O</td>
<td>9.2.2.145</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Target Communication Control Port ID</td>
<td>O</td>
<td>Communication Control Port ID 9.2.1.15</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH FDD Information Response</td>
<td>O</td>
<td>9.2.2.18E</td>
<td>FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH TDD Information Response</td>
<td>O</td>
<td>9.2.3.5G</td>
<td>TDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH TDD Information Response</td>
<td>O</td>
<td>E-DCH TDD Information Response 9.2.3.50</td>
<td>TDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC-hs Reset Indicator</td>
<td>O</td>
<td>9.2.1.38Ac</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Packet Connectivity HS-SCCH less Information Response</td>
<td>O</td>
<td>9.2.2.69</td>
<td>FDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Additional HS Cell Information Response</strong></td>
<td></td>
<td></td>
<td>For secondary serving HS-DSCH cell. Max 1 in this 3GPP release.</td>
<td>EACH ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-PDSCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH FDD Secondary Serving Information Response</td>
<td>M</td>
<td>9.2.2.18EA</td>
<td>FDD only</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Packet Connectivity DRX Information Response LCR</td>
<td>O</td>
<td>9.2.3.95</td>
<td>1.28 Mcps TDD only</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Semi-Persistent</td>
<td>O</td>
<td>9.2.3.98</td>
<td>1.28 Mcps TDD</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.49 RADIO LINK DELETION REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC” shall not be used.</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RL Information</td>
<td>1..&lt;maxno ofRLs&gt;</td>
<td>EACH</td>
<td>notify</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

### Range Bound

| maxnoofRLs | Maximum number of RLs for a UE |
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE |
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE |

---

**ETSI**
## 9.1.50 RADIO LINK DELETION RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

## 9.1.51 DL POWER CONTROL REQUEST [FDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC' shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Power Adjustment Type</td>
<td>M</td>
<td></td>
<td>9.2.2.27</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>DL Reference Power</td>
<td>C-</td>
<td></td>
<td>9.2.1.21</td>
<td>DL power on DPCH or on F-DPCH</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Inner Loop DL PC Status</td>
<td>O</td>
<td></td>
<td>9.2.2.18B</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>DL Reference Power Information</td>
<td>C-</td>
<td></td>
<td>1..&lt;maxno ofRLs&gt;</td>
<td>EACH</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td></td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Reference Power</td>
<td>M</td>
<td></td>
<td>9.2.1.21</td>
<td>Power on DPCH or on F-DPCH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max Adjustment Step</td>
<td>C-</td>
<td></td>
<td>9.2.2.20</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Adjustment Period</td>
<td>C-</td>
<td></td>
<td>9.2.2.B</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Adjustment Ratio</td>
<td>C-</td>
<td></td>
<td>9.2.2.C</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

### Condition
- **Common**: The IE shall be present if the Adjustment Type IE is equal to “Common”.
- **Individual**: The IE shall be present if the Adjustment Type IE is equal to ”Individual”.
- **CommonOrIndividual**: The IE shall be present if the Adjustment Type IE is equal to ”Common” or ”Individual”.

### Range Bound
- **maxnoofRLs**: Maximum number of Radio Links for a UE.
## 9.1.52 DEDICATED MEASUREMENT INITIATION REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication</td>
<td>M</td>
<td>9.2.1.48</td>
<td></td>
<td>The reserved value &quot;All NBCC' shall not be used when the Report characteristics type is set to &quot;On Demand&quot;.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td>9.2.1.42</td>
<td></td>
<td>YES reject</td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>CHOICE Dedicated</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement Object Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;RL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;DPCH ID</td>
<td>O</td>
<td>9.2.3.5</td>
<td></td>
<td>TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;PUSCH Information</td>
<td></td>
<td></td>
<td></td>
<td>TDD only</td>
<td>GLOBAL</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;PUSCH ID</td>
<td>M</td>
<td>9.2.3.12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;HS-SICH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;HS-SICH ID</td>
<td>M</td>
<td>9.2.3.5Gb</td>
<td></td>
<td>For 1.28Mcps TDD, if the Extended HS-SICH ID IE is included in the HS-SICH Information IE, the HS-SICH ID IE shall be ignored</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Extended HS-SICH ID</td>
<td>O</td>
<td>9.2.3.5K</td>
<td></td>
<td>Applicable to 1.28Mcps TDD only, the Extended HS-SICH ID IE shall be used if the HS-SICH identity has a value larger than 31. See note 1 below.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;DPCH ID 7.68Mcps</td>
<td>O</td>
<td>9.2.3.42</td>
<td></td>
<td>Included for 7.68Mcps TDD for downlink DPCH</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;&gt;RLS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;RL Set Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: See note 1 regarding the Extended HS-SICH ID IE.
### Condition | Explanation
--- | ---
BestCellPortionsMeas | The IE shall be present if the Dedicated Measurement Type IE is set to “Best Cell Portions”.
BestCellPortionsMeasLCR | The IE shall be present if the Dedicated Measurement Type IE is set to ‘Best Cell Portions LCR’.

### Range Bound | Explanation
--- | ---
maxnoofRLs | Maximum number of individual RLS a measurement can be started on
maxnoofPUSCHs | Maximum number of PUSCHs per RL a measurement can be started on
maxnoofRLSets | Maximum number of individual RL Sets a measurement can be started on
maxnoofHSSICHs | Maximum number of HSSICHs per RL a measurement can be started on

---

Note 1: This information element is a simplified representation of the ASN.1.
### 9.1.53 DEDICATED MEASUREMENT INITIATION RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td>9.2.1.42</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Dedicated Measurement Object Type</td>
<td>O</td>
<td>9.2.1.42</td>
<td>Dedicated Measurement Object Type the measurement was initiated with</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **>RL or ALL RL**

<table>
<thead>
<tr>
<th>&gt;&gt;RL Information</th>
<th>1..&lt;maxno ofRLs&gt;</th>
<th>EACH</th>
<th>ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>YES ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;DPCH ID</td>
<td>O</td>
<td>9.2.3.5</td>
<td>TDD only</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Dedicated Measurement Value</td>
<td>M</td>
<td>9.2.1.24</td>
<td>YES ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;CFN</td>
<td>O</td>
<td>9.2.1.7</td>
<td>Dedicated Measurement Time Reference</td>
</tr>
</tbody>
</table>

- **>>>PUSCH Information**

| >>>PUSCH ID                       | M                | 9.2.3.12 | YES ignore |
| >>>Dedicated Measurement Value    | O                | 9.2.1.24 | YES ignore |

| >>>HS-SICH ID                     | O                | 9.2.3.5Gb | TDD only For 1.28Mcps TDD, if the Extended HS-SICH ID IE is included in the HS-SICH Information IE, the HS-SICH ID IE shall be ignored | YES reject |

| >>>Multiple Dedicated Measurement Value Information | 0..<maxno ofDPCHsPerRL-1> | Applicable to 3.84Mcps TDD only | GLOBAL | ignore |
| >>>DPCH ID                          | M                | 9.2.3.5   | YES ignore |
| >>>Dedicated Measurement Value      | M                | 9.2.1.24   | YES ignore |

| >>>Multiple Dedicated Measurement Value Information LCR | 0..<maxno ofDPCHsL CRPerRL-1> | Applicable to 1.28Mcps TDD only | GLOBAL | ignore |
| >>>DPCH ID                          | M                | 9.2.3.5   | YES ignore |
| >>>Dedicated Measurement Value      | M                | 9.2.1.24   | YES ignore |

| >>>Multiple HS-SICH                 | 0..<maxno       | TDD only  | GLOBAL | ignore |
| Measurement Value Information | ofHSSICH ID \( s - 1 \) | 9.2.3.5Gb | For 1.28Mcps TDD, if the \textit{Extended HS-SICH ID} \( \text{IE} \) is included in the \textit{HS-SICH Information} \( \text{IE} \), the \textit{HS-SICH ID} \( \text{IE} \) shall be ignored | – |
| >>>>Dedicated Measurement Value | M | 9.2.1.24 | – | – |
| >>>>Extended HS-SICH ID | O | 9.2.3.5K | Applicable to 1.28Mcps TDD only, the \textit{Extended HS-SICH ID} \( \text{IE} \) shall be used if the HS-SICH identity has a value larger than 31. | YES | ignore |
| >>>DPCH ID 7.68Mcps | O | 9.2.3.42 | Included for 7.68Mcps TDD for downlink DPCH | YES | reject |
| >>>Multiple Dedicated Measurement Value Information 768Mcps | 0..<maxno ofDPCHs7 68PerRL-1> | Applicable to 7.68McpsTDD only | GLOBAL | ignore |
| >>>DPCH ID 7.68Mcps | M | 9.2.3.42 | – | – |
| >>>Dedicated Measurement Value | M | 9.2.1.24 | – | – |
| >>>Extended HS-SICH ID | O | 9.2.3.5K | Applicable to 1.28Mcps TDD only, the \textit{Extended HS-SICH ID} \( \text{IE} \) shall be used if the HS-SICH identity has a value larger than 31. | YES | reject |
| >RLS or ALL RLS | FDD only | See Note 2 | \text{Each} | ignore |
| >>>RL Set Information | 1..<maxno ofRLSets> | | | |
| >>>RL Set ID | M | 9.2.2.39 | – | – |
| >>>Dedicated Measurement Value | M | 9.2.1.24 | – | – |
| >>>CFN | O | 9.2.1.17 | Dedicated Measurement Time Reference | – | – |
| Criticality Diagnostics | O | 9.2.1.17 | YES | ignore |
| Measurement Recovery | O | 9.2.1.43C | YES | ignore |
Support Indicator

Note 1: This is a simplified representation of the ASN.1: there are two different choice tags "RL" and "ALL RL" in the ASN.1, each having exactly the same structure.

Note 2: This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in the ASN.1, each having exactly the same structure.

Note 3: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofPUSCHs are represented by separate ASN.1 structures with different criticality.

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of individual RLs the measurement can be started on</td>
</tr>
<tr>
<td>maxnoofPUSCHs</td>
<td>Maximum number of PUSCHs per RL a measurement can be started on</td>
</tr>
<tr>
<td>maxnoofRLSets</td>
<td>Maximum number of individual RL Sets a measurement can be started on</td>
</tr>
<tr>
<td>maxnoofDPCHsPerRL</td>
<td>Maximum number of DPCHs per RL a measurement can be started on for 3.84Mcps TDD</td>
</tr>
<tr>
<td>maxnoofDPCHsLCRPerRL</td>
<td>Maximum number of DPCHs per RL a measurement can be started on for 1.28Mcps TDD</td>
</tr>
<tr>
<td>maxnoofHSSICHs</td>
<td>Maximum number of HSSICHs per RL a measurement can be started on</td>
</tr>
<tr>
<td>maxnoofDPCHs768PerRL</td>
<td>Maximum number of DPCHs per RL a measurement can be started on for 7.68Mcps TDD</td>
</tr>
</tbody>
</table>

9.1.54 DEDICATED MEASUREMENT INITIATION FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>reject</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.18</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td></td>
<td>9.2.1.42</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.55 DEDICATED MEASUREMENT REPORT

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td>YES ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td>9.2.1.42</td>
<td>YES ignore</td>
<td>YES ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>CHOICE Dedicated Measurement Object Type</td>
<td>M</td>
<td>9.2.1.24A</td>
<td>Dedicated Measurement Object Type the measurement was initiated with</td>
<td>YES ignore</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

**>RL or ALL RL**

**>>RL Information**

| >>RL ID | M | 9.2.1.53 | – | – |
| >>DPCH ID | O | 9.2.3.5 | TDD only | – |
| >>>Dedicated Measurement Value Information | M | 9.2.1.24A | – | – |

**>>>PUSCH Information**

| >>>PUSCH ID | M | 9.2.3.12 | – | – |
| >>>Dedicated Measurement Value | O | 9.2.1.24 | – | – |

**>>>HS-SICH ID**

| >>>HS-SICH ID | O | 9.2.3.5Gb | TDD only For 1.28Mcps TDD, if the Extended HS-SICH ID IE is included in the HS-SICH Information IE, the HS-SICH ID IE shall be ignored | YES reject | – | – |

**>>>DPCH ID 7.68Mcps**

| >>>DPCH ID 7.68Mcps | O | 9.2.3.42 | Included for 7.68Mcps TDD for downlink DPCH | YES reject | – | – |

**>>>Extended HS-SICH ID**

| >>>Extended HS-SICH ID | O | 9.2.3.5K | Applicable to 1.28Mcps TDD only, the Extended HS-SICH ID IE shall be used if the HS-SICH identity has a value larger than 31. | YES ignore | – | – |

**>RLS or ALL RLS**

| FDD only | – | – | – | – | – | – | – | – | – | – | – | – | – | – |

---
**>>RL Set Information**

<table>
<thead>
<tr>
<th>Semantic Type</th>
<th>IE/Group Name</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>Measurement Recovery Reporting Indicator</td>
<td>O</td>
<td>9.2.1.43B</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>Dedicated Measurement Value Information</td>
<td>1..&lt;maxno ofRLSets&gt;</td>
<td>9.2.2.39</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note 1:** This is a simplified representation of the ASN.1: there are two different choice tags "RL" and "ALL RL" in the ASN.1, each having exactly the same structure.

**Note 2:** This is a simplified representation of the ASN.1: there are two different choice tags "RLS" and "ALL RLS" in the ASN.1, each having exactly the same structure.

**Note 3:** This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxnoofPUSCHs are represented by separate ASN.1 structures with different criticality.

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of individual RLs the measurement can be started on</td>
</tr>
<tr>
<td>maxnoofPUSCHs</td>
<td>Maximum number of PUSCHs per RL a measurement can be started on</td>
</tr>
<tr>
<td>maxnoofRLSets</td>
<td>Maximum number of individual RL Sets a measurement can be started on</td>
</tr>
</tbody>
</table>

### 9.1.56 DEDICATED MEASUREMENT TERMINATION REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All NBCC&quot; shall be used if this value was used when initiating the measurement. Otherwise, the reserved value &quot;All NBCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td>9.2.1.42</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.57 DEDICATED MEASUREMENT FAILURE INDICATION

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication</td>
<td>M</td>
<td>9.2.1.18</td>
<td></td>
<td>The reserved value “All CRNCCC” shall be used if the Node B Communication Context ID was set to “All NBCC” when initiating the measurement. Otherwise, the reserved value “All CRNCCC” shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Context ID</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement ID</td>
<td>M</td>
<td>9.2.1.42</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.58 RADIO LINK FAILURE INDICATION

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td>The reserved value “All CRNCCC” shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>CRNC Communication</td>
<td>M</td>
<td>9.2.1.18</td>
<td>–</td>
<td>–</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Context ID</td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>CHOICE Reporting Object</td>
<td>M</td>
<td></td>
<td></td>
<td>–</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;RL</td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;RL Information</td>
<td>1..&lt;maxno ofRLs&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;RL Set</td>
<td></td>
<td></td>
<td></td>
<td>FDD only</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;RL Set Information</td>
<td>1..&lt;maxno ofRLSets&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;RL Set ID</td>
<td>M</td>
<td>9.2.2.39</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;CCTrCH</td>
<td></td>
<td></td>
<td></td>
<td>TDD only</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;CCTrCH List</td>
<td>1..&lt;maxno ofCCTrCHs&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of RLs for one UE</td>
</tr>
<tr>
<td>maxnoofRLSets</td>
<td>Maximum number of RL Sets for one UE</td>
</tr>
<tr>
<td>maxnoofCCTrCHs</td>
<td>Maximum number of CCTrCHs for a UE</td>
</tr>
</tbody>
</table>
### 9.1.59 RADIO LINK RESTORE INDICATION

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES</td>
<td>ignores</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td>ignores</td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td></td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignores</td>
</tr>
<tr>
<td>CHOICE Reporting Object</td>
<td>M</td>
<td></td>
<td></td>
<td>Object for which the Restoration shall be reported.</td>
<td>YES</td>
<td>ignores</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
</table>

| RL                                      | TDD only |                    |                       |                                                                                        |             |                      |

#### Each RL

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>►RL Set Information</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
</table>

#### Each RL Set

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>►CCTrCH</td>
<td>TDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Each CCTrCH

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
</table>

#### Range Bound

<table>
<thead>
<tr>
<th>maxnoofRLs</th>
<th>maximum number of RLs for one UE</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLSets</td>
<td>maximum number of RL Sets for one UE</td>
</tr>
<tr>
<td>maxnoofCCTrCHs</td>
<td>maximum number of CCTrCHs for a UE</td>
</tr>
</tbody>
</table>

### 9.1.60 COMPRESSED MODE COMMAND [FDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES</td>
<td>ignores</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td></td>
<td>The reserved value &quot;All NBCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignores</td>
</tr>
<tr>
<td>Active Pattern Sequence Information</td>
<td>M</td>
<td>9.2.2.A</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignores</td>
</tr>
</tbody>
</table>
### 9.1.61 ERROR INDICATION

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td></td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>O</td>
<td>9.2.1.18</td>
<td></td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>O</td>
<td>9.2.1.48</td>
<td></td>
<td>The reserved value &quot;All NBCC’ shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Cause</td>
<td>O</td>
<td>9.2.1.6</td>
<td>YES</td>
<td></td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
<td></td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.62 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST

#### 9.1.62.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Configuration Generation ID</td>
<td>M</td>
<td>9.2.1.16</td>
<td>YES</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>SFN</td>
<td>O</td>
<td>9.2.1.53A</td>
<td></td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH Total Power</td>
<td>O</td>
<td>Maximum Transmission Power 9.2.1.40</td>
<td>Maximum transmission power to be allowed for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH codes</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>HS-PDSCH And HS-SCCH Scrambling Code</td>
<td>O</td>
<td>DL Scrambling Code 9.2.2.13</td>
<td>Scrambling code on which HS-PDSCH and HS-SCCH is transmitted. 0= Primary scrambling code of the cell 1...15 = Secondary scrambling code</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>HS-PDSCH FDD Code Information</td>
<td>O</td>
<td>9.2.2.18F</td>
<td></td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>HS-SCCH FDD Code Information</td>
<td>O</td>
<td>9.2.2.18G</td>
<td></td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>Information Type</td>
<td>Mode</td>
<td>9.2.2.x</td>
<td>Scrambling Code</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>------</td>
<td>-----</td>
<td>----------------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-AGCH And E-RGCH/E-HICH FDD Scrambling Code</td>
<td>O</td>
<td>9.2.2.13</td>
<td>DL Scrambling Code</td>
<td>Scrambling code on which E-AGCH, E-RGCH and E-HICH are transmitted. 0= Primary scrambling code of the cell 1...15 = Secondary scrambling code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-AGCH Code FDD Information</td>
<td>O</td>
<td>9.2.2.13lb</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-RGCH/E-HICH Code FDD Information</td>
<td>O</td>
<td>9.2.2.13la</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSDPA And E-DCH Cell Portion Information</td>
<td>O</td>
<td>9.2.2.1Ca</td>
<td>GLOBAL reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell Portion ID</td>
<td>M</td>
<td>9.2.2.1Ca</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-PDSCH And HS-SCCH Scrambling Code</td>
<td>O</td>
<td>9.2.2.13</td>
<td>DL Scrambling Code</td>
<td>Scrambling code on which HS-PDSCH and HS-SCCH is transmitted over cell portion.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-PDSCH FDD Code Information</td>
<td>O</td>
<td>9.2.2.18F</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-SCCH FDD Code Information</td>
<td>O</td>
<td>9.2.2.18G</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH Total Power</td>
<td>O</td>
<td>9.2.1.40</td>
<td>Maximum Transmission Power</td>
<td>Maximum transmission power to be allowed for HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH and E-HICH codes over cell portion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-AGCH And E-RGCH/E-HICH FDD Scrambling Code</td>
<td>O</td>
<td>9.2.2.13</td>
<td>DL Scrambling Code</td>
<td>Scrambling code on which E-AGCH, E-RGCH and E-HICH are transmitted over cell portion.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-AGCH Code FDD Information</td>
<td>O</td>
<td>9.2.2.13lb</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RGCH/E-HICH Code FDD Information</td>
<td>O</td>
<td>9.2.2.13la</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Target Received Total Wide Band Power</td>
<td>O</td>
<td>9.2.2.21a</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference Received Total Wide Band Power</td>
<td>O</td>
<td>9.2.2.39B</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Target Non-serving E-DCH to Total E-DCH Power ratio</td>
<td>O</td>
<td>9.2.2.21b</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCCH Common System Information</td>
<td>O</td>
<td>9.2.2.75</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Common MAC Flows to Delete | O | 9.2.2.97 | YES | reject
---|---|---|---|---
HS-DSCH Paging System Information | O | 9.2.2.76 | YES | reject
Paging MAC Flows to Delete | O | 9.2.2.98 | YES | reject
Common E-DCH System Information | O | 9.2.2.103 | YES | Reject
Common UL MAC Flows to Delete | O | Common MAC Flows to Delete 9.2.2.97 | YES | Reject
Common E-DCH MAC-d Flows to Delete | O | E-DCH MAC Flows to Delete 9.2.1.73 | YES | Reject
Enhanced UE DRX Information | O | 9.2.2.108 | YES | reject

### Range Bound

<table>
<thead>
<tr>
<th>MaxNoofCellPortions</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum number of Cell Portions in a cell</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.1.62.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFN</td>
<td>O</td>
<td>9.2.1.53A</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PDSCH Sets To Add</td>
<td>0..&lt;maxno ofPDSCH Sets&gt;</td>
<td>GLOBAL</td>
<td>reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PDSCH Set ID</td>
<td>M</td>
<td>9.2.3.11</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PDSCH To Add Information</td>
<td>0..1</td>
<td>Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD.</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.20</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;DL Timeslot Information</td>
<td>1..&lt;maxno ofDLts&gt;</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td>9.2.3.7</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TFCI Presence</td>
<td>M</td>
<td>9.2.1.57</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;DL Code Information</td>
<td>1..&lt;maxno ofPDSCHs &gt;</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;PDSCH ID</td>
<td>M</td>
<td>9.2.3.10</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Path</td>
<td>Type</td>
<td>Value</td>
<td>Description</td>
<td>Status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>------</td>
<td>-------</td>
<td>-------------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PDSCH To Add Information LCR</td>
<td>0..1</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; DL Timeslot Information LCR</td>
<td>1..&lt;maxno of DLts LCR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; TFCl Presence</td>
<td>M</td>
<td>9.2.1.57</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; DL Code Information LCR</td>
<td>1..&lt;maxno of PDSCHs &gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; PDSCH ID</td>
<td>M</td>
<td>9.2.3.10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; TDD Channelisation Code LCR</td>
<td>M</td>
<td>9.2.3.19a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; TDD DL DPCH Time Slot Format LCR</td>
<td>O</td>
<td>9.2.3.19D</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; TSTD Indicator</td>
<td>O</td>
<td>9.2.1.64</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PDSCH Sets To Modify</td>
<td>0..&lt;maxno of PDSCHSets &gt;</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; DL Timeslot Information 7.68Mcps</td>
<td>1..&lt;maxno of DLts&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; TFCl Presence</td>
<td>M</td>
<td>9.2.1.57</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; DL Code Information 7.68Mcps</td>
<td>1..&lt;maxno of PDSCHs &gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; PDSCH ID 7.68Mcps</td>
<td>M</td>
<td>9.2.3.43</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td>9.2.3.34</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PDSCH Sets To Modify | 0..<maxno of PDSCHSets > | GGLOBAL | reject |

PDSCH Set ID | M | 9.2.3.11 | | |
<p>|CHOICE| HCR or LCR or 7.68 Mcps| See note 1 below| – |
|––3.84Mcps TDD| | | |
|––PDSCH To Modify Information| 1| YES| reject |
|––Repetition Period| O| 9.2.3.16| – |
|––Repetition Length| O| 9.2.3.15| – |
|––TDD Physical Channel Offset| O| 9.2.3.20| – |
|––DL Timeslot Information| 0..&lt;maxno ofDLts&gt;| | – |
|––Time Slot| M| 9.2.3.23| – |
|––Midamble Shift And Burst Type| O| 9.2.3.7| – |
|––TFCI Presence| O| 9.2.1.57| – |
|––DL Code Information| 0..&lt;maxno ofPDSCHs&gt;| | – |
|––PDSCH ID| M| 9.2.3.10| – |
|––TDD Channelisation Code| M| 9.2.3.19| – |
|–1.28Mcps TDD| | | |
|––PDSCH To Modify Information LCR| 1| YES| reject |
|––Repetition Period| O| 9.2.3.16| – |
|––Repetition Length| O| 9.2.3.15| – |
|––TDD Physical Channel Offset| O| 9.2.3.20| – |
|––DL Timeslot Information LCR| 0..&lt;maxno ofDLtsLCR&gt;| | – |
|––Time Slot LCR| M| 9.2.3.24A| – |
|––Midamble Shift LCR| O| 9.2.3.7A| – |
|––TFCI Presence| O| 9.2.1.57| – |
|––DL Code Information LCR| 0..&lt;maxno ofPDSCHs&gt;| | – |
|––PDSCH ID| M| 9.2.3.10| – |
|––TDD Channelisation Code LCR| M| 9.2.3.19a| – |
|––TDD DL DPCH Time Slot Format LCR| O| 9.2.3.19D| YES| reject |
|7.68Mcps TDD| | | |
|––PDSCH To Modify Information 7.68Mcps| 1| YES| reject |</p>
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-Repetition Period O 9.2.3.16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-Repetition Length O 9.2.3.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-TDD Physical Channel Offset O 9.2.3.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-DL Timeslot Information 7.68Mcps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-Time Slot M 9.2.3.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-Midamble Shift And Burst Type 7.68Mcps O 9.2.3.35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-TFCI Presence O 9.2.1.57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;-DL Code Information 7.68Mcps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;-PDSCH ID 7.68Mcps M 9.2.3.43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;-TDD Channelisation Code 7.68Mcps M 9.2.3.34</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PDSCH Sets To Delete 0..&lt;maxno of PDSCHSe ts&gt; GLOBAL reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PDSCH Set ID M 9.2.3.11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PUSCH Sets To Add 0..&lt;maxno of PUSCHSe ts&gt; GLOBAL reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PUSCH Set ID M 9.2.3.13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PUSCH To Add Information 0..1 Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD.</td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-Repetition Period M 9.2.3.16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-Repetition Length M 9.2.3.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-TDD Physical Channel Offset M 9.2.3.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-UL Timeslot Information 1..&lt;maxno ofULTs&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-Time Slot M 9.2.3.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-Midamble Shift And Burst Type M 9.2.3.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-TFCI Presence M 9.2.1.57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-UL Code Information 1..&lt;maxno ofPUSCHs &gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-PUSCH ID M 9.2.3.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;-TDD Channelisation Code M 9.2.3.19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PUSCH To Add Information LCR 0..1 Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.</td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Type</td>
<td>Reference</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
</tr>
<tr>
<td>&gt;&gt;TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.20</td>
</tr>
<tr>
<td>&gt;&gt;UL Timeslot Information LCR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TFCI Presence</td>
<td>M</td>
<td>9.2.1.57</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;UL Code Information LCR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;PUSCH ID</td>
<td>M</td>
<td>9.2.3.12</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD Channelisation Code LCR</td>
<td>M</td>
<td>9.2.3.19a</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD UL DPCH Time Slot Format LCR</td>
<td>O</td>
<td>9.2.3.21C</td>
</tr>
</tbody>
</table>

**PUSCH To Add Information 7.68Mcps**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;TDD Physical Channel Offset</td>
<td>M</td>
<td>9.2.3.20</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;UL Timeslot Information 7.68Mcps</td>
<td></td>
<td></td>
<td>1..&lt;maxno ofULts&gt;</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;&gt;TFCI Presence</td>
<td>M</td>
<td>9.2.1.57</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;&gt;UL Code Information 7.68Mcps</td>
<td></td>
<td></td>
<td>1..&lt;maxno ofPUSCHs&gt;</td>
</tr>
<tr>
<td>&gt;&gt;&gt;PUSCH ID</td>
<td>M</td>
<td>9.2.3.12</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td>9.2.3.34</td>
<td>-</td>
</tr>
</tbody>
</table>

**PUSCH Sets To Modify**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUSCH Set ID</td>
<td>M</td>
<td>9.2.3.13</td>
<td>-</td>
</tr>
<tr>
<td>&gt;CHOICE HCR or LCR or 7.68Mcps</td>
<td>M</td>
<td></td>
<td>See note 1 below</td>
</tr>
<tr>
<td>&gt;&gt;&gt;3.84Mcps TDD</td>
<td></td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;&gt;PUSCH To Modify Information</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Repetition Period</td>
<td>O</td>
<td>9.2.3.16</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Repetition Length</td>
<td>O</td>
<td>9.2.3.15</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD Physical Channel Offset</td>
<td>O</td>
<td>9.2.3.20</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>0..&lt;maxno ofULts&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-------------------</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;UL Timeslot Information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Midamble Shift And Burst Type</td>
<td>O</td>
<td>9.2.3.7</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TFCI Presence</td>
<td>O</td>
<td>9.2.1.57</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;UL Code Information</td>
<td>0..&lt;maxno ofPUSCHs&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;PUSCH ID</td>
<td>M</td>
<td>9.2.3.12</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;1.28Mcps TDD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;PUSCH To Modify Information LCR</td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Repetition Period</td>
<td>O</td>
<td>9.2.3.16</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Repetition Length</td>
<td>O</td>
<td>9.2.3.15</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD Physical Channel Offset</td>
<td>O</td>
<td>9.2.3.20</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;UL Timeslot Information LCR</td>
<td>0..&lt;maxno ofULtsLCR</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Midamble Shift LCR</td>
<td>O</td>
<td>9.2.3.7A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TFCI Presence</td>
<td>O</td>
<td>9.2.1.57</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;UL Code Information LCR</td>
<td>0..&lt;maxno ofPUSCHs&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;PUSCH ID</td>
<td>M</td>
<td>9.2.3.12</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;TDD Channelisation Code LCR</td>
<td>M</td>
<td>9.2.3.19a</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;&gt;TDD UL DPCH Time Slot Format LCR</td>
<td>O</td>
<td>9.2.3.21C YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;7.68Mcps TDD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;PUSCH To Modify Information 7.68Mcps</td>
<td></td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Repetition Period</td>
<td>O</td>
<td>9.2.3.16</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Repetition Length</td>
<td>O</td>
<td>9.2.3.15</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD Physical Channel Offset</td>
<td>O</td>
<td>9.2.3.20</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;UL Timeslot Information 7.68Mcps</td>
<td>0..&lt;maxno ofULts&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>Field Description</td>
<td>Length</td>
<td>Specification</td>
<td>Action</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------------</td>
<td>--------</td>
<td>---------------</td>
<td>--------</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;(Midamble Shift And Burst Type 7.68Mcps)</td>
<td>O</td>
<td>9.2.3.35</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;(TFCI Presence)</td>
<td>O</td>
<td>9.2.1.57</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;(UL Code Information 7.68Mcps)</td>
<td>0..&lt;maxno ofPUSCHs&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;(PUSCH ID)</td>
<td>M</td>
<td>9.2.3.12</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;(TDD Channelisation Code 7.68Mcps)</td>
<td>M</td>
<td>9.2.3.34</td>
<td>–</td>
</tr>
<tr>
<td>PUSCH Sets To Delete</td>
<td>0..&lt;maxno ofPUSCH Sets&gt;</td>
<td>GLOBAL</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;PUSCH Set ID</td>
<td>M</td>
<td>9.2.3.13</td>
<td>–</td>
</tr>
<tr>
<td>HS-PDSCH TDD Information</td>
<td>0..&lt;1</td>
<td>GLOBAL</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;DL Timeslot and Code Information</td>
<td>0..&lt;maxno ofDLTs&gt;</td>
<td>Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD.</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td>9.2.3.7</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Codes</td>
<td>1..&lt;maxno ofHSPDS CHs&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-PDSCH and HS-SCCH Total Power</td>
<td>O</td>
<td>Maximum Transmission Power 9.2.1.40</td>
<td>YES</td>
</tr>
<tr>
<td>&gt;DL Timeslot and Code Information LCR per UARFCN</td>
<td>0..&lt;maxFrequencyCell&gt;</td>
<td>Mandatory for 1.28Mcps TDD Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD. See note 2 below</td>
<td>EACH</td>
</tr>
<tr>
<td>&gt;&gt;DL Timeslot and Code Information LCR</td>
<td>0..&lt;maxno ofDLTsLCR&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Codes LCR</td>
<td>1..&lt;maxno ofHSPDS CHs&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------------------------</td>
<td>-----------------------------------------------------------------</td>
<td>-----------------------------------------------------------------</td>
<td>-----------------------------------------------------------------</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;HS-PDSCH and HS-SCCH Total Power</td>
<td>O</td>
<td>Maximum Transmission Power 9.2.1.40</td>
<td>Maximum transmission power to be allowed for HS-PDSCH and HS-SCCH codes in the timeslot</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;HS-PDSCH and HS-SCCH Total Power per CELL PORTION</td>
<td>0..&lt;maxNr OfCellPortionsLCR&gt;</td>
<td>EACH</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Cell Portion LCR ID</td>
<td>M</td>
<td>9.2.3.107</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; HS-PDSCH and HS-SCCH Total Power Value for CELL PORTION</td>
<td>M</td>
<td>Maximum Transmission Power 9.2.1.40</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Mandatory for 1.28Mcps TDD when using multiple frequencies.</td>
</tr>
<tr>
<td>&gt;DL Timeslot and Code Information 7.68Mcps</td>
<td>0..&lt;maxno ofDLts&gt;</td>
<td>Mandatory for 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD or 3.84 Mcps TDD.</td>
<td>GLOBAL reject</td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Codes 7.68Mcps</td>
<td>1..&lt;maxno ofHSPDS CHs768&gt;</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td>9.2.3.34</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-PDSCH and HS-SCCH Total Power</td>
<td>O</td>
<td>Maximum Transmission Power 9.2.1.40</td>
<td>Maximum transmission power to be allowed for HS-PDSCH and HS-SCCH codes in the timeslot</td>
</tr>
<tr>
<td>Add to HS-SCCH Resource Pool</td>
<td>0..&lt;1</td>
<td>GLOBAL</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;HS-SCCH Information</td>
<td>0..&lt;maxno ofHSSCC Hs&gt;</td>
<td>Applicable to 3.84Mcps TDD only</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;HS-SCCH ID</td>
<td>M</td>
<td>9.2.3.5Ga</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td>9.2.3.7</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Maximum HS-SCCH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-SICH Information</td>
<td>1</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;HS-SICH ID</td>
<td>M</td>
<td>9.2.3.5Gb</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9.2.3.7</td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>----</td>
<td>------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;HS-SCCH Information LCR</td>
<td></td>
<td></td>
<td>Applicable to 1.28Mcps TDD only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See note 3 below</td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-SCCH ID</td>
<td>M</td>
<td>9.2.3.5Ga</td>
<td>If the Extended HS-SCCH ID IE is included in the HS-SCCH Information LCR IE, the HS-SCCH ID IE shall be ignored.</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;First TDD Channelisation Code</td>
<td>M</td>
<td>TDD Channelisation Code 9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Second TDD Channelisation Code</td>
<td>M</td>
<td>TDD Channelisation Code 9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Maximum HS-SCCH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;HS-SICH Information LCR</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;HS-SICH ID</td>
<td>M</td>
<td>9.2.3.5Gb</td>
<td>If the Extended HS-SICH ID IE is included in the HS-SICH Information LCR IE, the HS-SICH ID IE shall be ignored.</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Extended HS-SICH ID</td>
<td>O</td>
<td>9.2.3.5K</td>
<td>The Extended HS-SICH ID IE shall be used if the HS-SICH identity has a value larger than 31. YES ignore</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Extended HS-SCCH ID</td>
<td>O</td>
<td>9.2.3.5J</td>
<td>The Extended HS-SCCH ID IE shall be used if the HS-SCCH identity has a value larger than 31. YES ignore</td>
</tr>
<tr>
<td>&gt;&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Ni [15] Mandatory for 1.28Mcps TDD when using multiple frequencies.</td>
</tr>
<tr>
<td>&gt;&gt;HS-SICH Reference Signal Information</td>
<td>O</td>
<td>9.2.3.103</td>
<td></td>
</tr>
<tr>
<td>&gt;HS-SCCH Information 7.68Mcps</td>
<td>0..&lt;maxno ofHSSCC Hs&gt;</td>
<td></td>
<td>Applicable to 7.68Mcps TDD only</td>
</tr>
<tr>
<td>&gt;&gt;HS-SCCH ID</td>
<td>M</td>
<td>9.2.3.5Ga</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td>9.2.3.34</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Maximum HS-SCCH Power</td>
<td>M</td>
<td></td>
<td>DL Power 9.2.1.21</td>
</tr>
<tr>
<td>&gt;&gt;HS-SICH Information 7.68Mcps</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-SICH ID</td>
<td>M</td>
<td>9.2.3.5Gb</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td>9.2.3.34</td>
<td></td>
</tr>
<tr>
<td>Modify HS-SCCH Resource Pool</td>
<td>0..1</td>
<td></td>
<td>GLOBAL</td>
</tr>
<tr>
<td>&gt;HS-SCCH Information</td>
<td>0..&lt;maxno ofHSSCC Hs&gt;</td>
<td></td>
<td>Applicable to 3.84Mcps TDD only</td>
</tr>
<tr>
<td>&gt;&gt;HS-SCCH ID</td>
<td>M</td>
<td>9.2.3.5Ga</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>O</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift And Burst Type</td>
<td>O</td>
<td>9.2.3.7</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD Channelisation Code</td>
<td>O</td>
<td>9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Maximum HS-SCCH Power</td>
<td>O</td>
<td></td>
<td>DL Power 9.2.1.21</td>
</tr>
<tr>
<td>&gt;&gt;HS-SICH Information</td>
<td>0..1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-SICH ID</td>
<td>M</td>
<td>9.2.3.5Gb</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>O</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type</td>
<td>O</td>
<td>9.2.3.7</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>O</td>
<td>9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;HS-SCCH Information LCR</td>
<td>0..&lt;maxno ofHSSCC Hs&gt;</td>
<td></td>
<td>Applicable to 1.28Mcps TDD only See note 3 below</td>
</tr>
<tr>
<td>Field</td>
<td>M</td>
<td>9.2.3.5Ga</td>
<td>If the Extended HS-SCCH ID IE is included in the HS-SCCH Information LCR IE, the HS-SCCH ID IE shall be ignored.</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>--------------------</td>
<td>----------</td>
<td>-----------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>&gt;&gt;Time Slot LCR</td>
<td>O</td>
<td>9.2.3.24A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift LCR</td>
<td>O</td>
<td>9.2.3.7A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;First TDD Channelisation Code</td>
<td>O</td>
<td>TDD Channelisation Code 9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Second TDD Channelisation Code</td>
<td>O</td>
<td>TDD Channelisation Code 9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Maximum HS-SCCH Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;HS-SICH Information LCR</td>
<td>0..1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-SICH ID</td>
<td>M</td>
<td>9.2.3.5Gb</td>
<td>If the Extended HS-SICH ID IE is included in the HS-SICH Information LCR IE, the HS-SICH ID IE shall be ignored.</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot LCR</td>
<td>O</td>
<td>9.2.3.24A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift LCR</td>
<td>O</td>
<td>9.2.3.7A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>O</td>
<td>9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Extended HS-SICH ID</td>
<td>O</td>
<td>9.2.3.5K</td>
<td>The Extended HS-SICH ID IE shall be used if the HS-SICH identity has a value larger than 31.</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Extended HS-SCCH ID</td>
<td>O</td>
<td>9.2.3.5J</td>
<td>The Extended HS-SCCH ID IE shall be used if the HS-SCCH identity has a value larger than 31.</td>
</tr>
<tr>
<td>&gt;&gt;&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Applicable to 1.28Mcps TDD when using multiple frequencies.</td>
</tr>
<tr>
<td>&gt;&gt;HS-SICH Reference Signal Information Modify</td>
<td>0..1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-SICH Reference Signal Information</td>
<td>O</td>
<td>9.2.3.103</td>
<td></td>
</tr>
<tr>
<td><strong>&gt;HS-SCCH Information 7.68Mcps</strong></td>
<td>0..&lt;maxno of HSSCC Hs&gt;</td>
<td>Applicable to 7.68Mcps TDD only</td>
<td>GLOBAL</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------</td>
<td>---------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>&gt;&gt;HS-SCCH ID</td>
<td>M</td>
<td>9.2.3.5Ga</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>O</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td>9.2.3.34</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Maximum HS-SCCH Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;HS-SICH Information 7.68Mcps</td>
<td>0..1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-SICH ID</td>
<td>M</td>
<td>9.2.3.5Gb</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>O</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td>9.2.3.34</td>
<td></td>
</tr>
<tr>
<td><strong>Delete from HS-SCCH Resource Pool</strong></td>
<td>0..&lt;maxno of HSSCC Hs&gt;</td>
<td>For 1.28Mcps TDD, see note 3 below</td>
<td>GLOBAL</td>
</tr>
<tr>
<td>&gt;HS-SCCH ID</td>
<td>M</td>
<td>9.2.3.5Ga</td>
<td></td>
</tr>
<tr>
<td>&gt;Extended HS-SCCH ID</td>
<td>O</td>
<td>9.2.3.5J</td>
<td>Applicable to 1.28Mcps TDD only, the Extended HS-SCCH ID IE shall be used if the HS-SCCH identity has a value larger than 31.</td>
</tr>
<tr>
<td>Configuration Generation ID</td>
<td>O</td>
<td>9.2.1.16</td>
<td>YES</td>
</tr>
<tr>
<td><strong>E-PUCH Information</strong></td>
<td>0..1</td>
<td>3.84Mcps TDD only</td>
<td>GLOBAL</td>
</tr>
<tr>
<td>&gt;LTGI Presence</td>
<td>M</td>
<td>9.2.3.58</td>
<td></td>
</tr>
<tr>
<td>&gt;SNPL Reporting Type</td>
<td>M</td>
<td>9.2.3.62</td>
<td></td>
</tr>
<tr>
<td>&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td>9.2.3.7</td>
<td></td>
</tr>
<tr>
<td>&gt;E-PUCH Timeslot Information</td>
<td>1..&lt;maxno ofEPUCHs lots&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td><strong>Add to E-AGCH Resource Pool</strong></td>
<td>0..1</td>
<td>3.84Mcps TDD only</td>
<td>GLOBAL</td>
</tr>
<tr>
<td>&gt;E-AGCH Information</td>
<td>0..&lt;maxno ofEAG CHs&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>---------------------</td>
<td>-----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-AGCH ID TDD</td>
<td>M</td>
<td>9.2.3.51</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td>9.2.3.7</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Maximum E-AGCH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>Modify E-AGCH Resource Pool</td>
<td>0..1</td>
<td>3.84Mcps TDD only</td>
<td>GLOBAL reject</td>
</tr>
<tr>
<td>&gt;E-AGCH Information</td>
<td>0..&lt;maxno ofEAG CHs&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-AGCH ID TDD</td>
<td>M</td>
<td>9.2.3.51</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>O</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type</td>
<td>O</td>
<td>9.2.3.7</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>O</td>
<td>9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Maximum E-AGCH Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>Delete from E-AGCH Resource Pool</td>
<td>0..&lt;maxno ofEAG CHs&gt;</td>
<td></td>
<td>GLOBAL reject</td>
</tr>
<tr>
<td>&gt;E-AGCH ID TDD</td>
<td>M</td>
<td>9.2.3.51</td>
<td></td>
</tr>
<tr>
<td>E-HICH Information</td>
<td>0..1</td>
<td>3.84Mcps TDD only</td>
<td>GLOBAL reject</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td>9.2.3.7</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Maximum E-HICH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>Maximum Generated Received Total Wide Band Power in Other Cells</td>
<td>O</td>
<td>9.2.3.63</td>
<td>Applicable to 3.84Mcps and 7.68 Mcps TDD only</td>
</tr>
<tr>
<td>E-PUCH Information</td>
<td>0..1</td>
<td>7.68Mcps TDD only</td>
<td>GLOBAL reject</td>
</tr>
<tr>
<td>&gt;&gt;&gt;LTGI Presence</td>
<td>M</td>
<td>9.2.3.58</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SNPL Reporting Type</td>
<td>M</td>
<td>9.2.3.62</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td></td>
</tr>
<tr>
<td>&gt;E-PUCH Timeslot Information</td>
<td>1..&lt;maxno ofEPUCHs lots&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>Add to E-AGCH Resource Pool 7.68Mcps</td>
<td>0..1</td>
<td>7.68Mcps TDD only</td>
<td>GLOBAL reject</td>
</tr>
<tr>
<td>&gt;E-AGCH Information</td>
<td>0..&lt;maxno ofEAG CHs&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-AGCH ID TDD</td>
<td>M</td>
<td>9.2.3.51</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td>9.2.3.34</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Maximum E-AGCH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>Modify E-AGCH Resource Pool 7.68Mcps</td>
<td>0..1</td>
<td>7.68Mcps TDD only</td>
<td>GLOBAL reject</td>
</tr>
</tbody>
</table>
>E-AGCH Information

<table>
<thead>
<tr>
<th></th>
<th>0..&lt;maxno ofEAG CHs&gt;</th>
<th></th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;E-AGCH ID TDD</td>
<td>M</td>
<td>9.2.3.51</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>O</td>
<td>9.2.3.23</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>O</td>
<td>9.2.3.35</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;TDD Channelisation Code 7.68Mcps</td>
<td>O</td>
<td>9.2.3.34</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;Maximum E-AGCH Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>-</td>
</tr>
</tbody>
</table>

E-HICH Information

<table>
<thead>
<tr>
<th></th>
<th>0..1</th>
<th>7.68Mcps TDD only</th>
<th>GLOBAL</th>
<th>reject</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.68Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>M</td>
<td>9.2.3.35</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.34</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Maximum E-HICH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>E-PUCH Information 1.28Mcps</td>
<td>0..1</td>
<td>1.28Mcps TDD only</td>
<td>GLOBAL reject</td>
<td></td>
</tr>
<tr>
<td>LTGI Presence</td>
<td>M</td>
<td>9.2.3.58</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>SNPL Reporting Type</td>
<td>M</td>
<td>9.2.3.62</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>E-PUCH Timeslot information 1.28Mcps per UARFCN</td>
<td>0..&lt;maxFr equency in Cell&gt;</td>
<td>See note 2 below</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-PUCH Timeslot Information 1.28Mcps</td>
<td>0..&lt;maxno ofEPUUCHs lotsLCR&gt;</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Codes LCR</td>
<td>1..&lt;maxno ofEPUUCHc odes&gt;</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Mandatory for 1.28Mcps TDD when using multiple frequencies. YES ignore</td>
<td></td>
</tr>
<tr>
<td>Add to E-AGCH Resource Pool 1.28Mcps</td>
<td>0..1</td>
<td>1.28Mcps TDD only</td>
<td>GLOBAL reject</td>
<td></td>
</tr>
<tr>
<td>E-AGCH Information 1.28Mcps</td>
<td>1..&lt;maxno ofEAG CHs&gt;</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-AGCH ID TDD</td>
<td>M</td>
<td>9.2.3.51</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>First TDD Channelisation Code</td>
<td>M</td>
<td>TDD Channelisation Code 9.2.3.19</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Second TDD Channelisation Code</td>
<td>M</td>
<td>TDD Channelisation Code 9.2.3.19</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Maximum E-AGCH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Mandatory for 1.28Mcps TDD when using multiple frequencies. YES ignore</td>
<td></td>
</tr>
<tr>
<td>Modify E-AGCH Resource Pool 1.28Mcps</td>
<td>0..1</td>
<td>1.28Mcps TDD only</td>
<td>GLOBAL reject</td>
<td></td>
</tr>
<tr>
<td>E-AGCH Information 1.28Mcps</td>
<td>1..&lt;maxno ofEAG CHs&gt;</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-AGCH ID TDD</td>
<td>M</td>
<td>9.2.3.51</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>O</td>
<td>9.2.3.24A</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Midamble Shift LCR</td>
<td>O</td>
<td>9.2.3.7A</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Parameters</td>
<td>Status</td>
<td>Description</td>
<td>Action</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>--------</td>
<td>-------------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>First TDD Channelisation Code</td>
<td>O</td>
<td>TDD Channelisation Code 9.2.3.19</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Second TDD Channelisation Code</td>
<td>O</td>
<td>TDD Channelisation Code 9.2.3.19</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Maximum E-AGCH Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>YES ignore</td>
<td></td>
</tr>
<tr>
<td>Add to E-HICH Resource Pool 1.28Mcps</td>
<td>0..1</td>
<td>1.28Mcps TDD only</td>
<td>GLOBAL reject</td>
<td></td>
</tr>
<tr>
<td>E-HICH Information 1.28Mcps</td>
<td></td>
<td>1..&lt;maxno ofEHICHs&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>E-HICH ID TDD</td>
<td>M</td>
<td>9.2.3.51a</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>E-HICH Type</td>
<td>M</td>
<td>9.2.3.68</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Maximum E-HICH Power</td>
<td>M</td>
<td>DL Power 9.2.1.21</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Extended E-HICH ID TDD</td>
<td>O</td>
<td>9.2.3.51b</td>
<td>YES ignore</td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>YES ignore</td>
<td></td>
</tr>
<tr>
<td>Modify E-HICH Resource Pool 1.28Mcps</td>
<td>0..1</td>
<td>1.28Mcps TDD only</td>
<td>GLOBAL reject</td>
<td></td>
</tr>
<tr>
<td>E-HICH Information 1.28Mcps</td>
<td></td>
<td>1..&lt;maxno ofEHICHs&gt;</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td></td>
<td>M</td>
<td>9.2.3.51a</td>
<td>If the Extended E-HICH ID TDD IE is included in the E-HICH Information 1.28Mcps IE, the E-HICH ID TDD IE shall be ignored.</td>
<td>–</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------</td>
<td>-----------</td>
<td>---------------------------------------------------------------------------------</td>
<td>---</td>
</tr>
<tr>
<td>&gt;&gt;E-HICH Type</td>
<td>O</td>
<td>9.2.3.68</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;TDD Channelisation Code</td>
<td>O</td>
<td>9.2.3.19</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Time Slot LCR</td>
<td>O</td>
<td>9.2.3.24A</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift LCR</td>
<td>O</td>
<td>9.2.3.7A</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Maximum E-HICH Power</td>
<td>O</td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9.2.3.51b</td>
<td>Applicable to 1.28Mcps TDD only, the Extended E-HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31.</td>
<td>YES ignore</td>
</tr>
<tr>
<td>&gt;&gt;Extended E-HICH ID TDD</td>
<td>O</td>
<td></td>
<td></td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9.2.3.51b</td>
<td>Applicable to 1.28Mcps TDD only, the Extended E-HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31.</td>
<td>YES ignore</td>
</tr>
<tr>
<td>&gt;&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Mandatory for 1.28Mcps TDD when using multiple frequencies.</td>
<td>YES ignore</td>
</tr>
<tr>
<td>Delete from E-HICH Resource Pool 1.28Mcps</td>
<td>0..&lt;maxno ofEHICHs&gt;</td>
<td>1.28Mcps TDD only</td>
<td>GLOBAL reject</td>
<td></td>
</tr>
<tr>
<td>&gt;E-HICH ID TDD</td>
<td>M</td>
<td>9.2.3.51a</td>
<td>If the Extended E-HICH ID TDD IE is included in the Delete from E-HICH Resource Pool 1.28Mcps IE, the E-HICH ID TDD IE shall be ignored.</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Extended E-HICH ID TDD</td>
<td>O</td>
<td>9.2.3.51b</td>
<td>Applicable to 1.28Mcps TDD only, the Extended E-HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31.</td>
<td>YES ignore</td>
</tr>
</tbody>
</table>
### SYNC_UL Partition Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0..1</td>
<td>Applicable to 1.28Mcps TDD to indicate the SYNC_UL partition information for the Primary Frequency. Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GLOBAL reject</td>
</tr>
</tbody>
</table>

#### >E-RUCCH SYNC_UL codes bitmap

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>BITSTRING (8) Each bit indicates availability of a SYNC_UL code, where the SYNC_UL codes are numbered &quot;code 0&quot; to &quot;code 7&quot;. The value 1 of a bit indicates that the corresponding SYNC_UL code can be used. The value 0 of a bit indicates that the corresponding SYNC_UL code can not be used.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>–</td>
</tr>
</tbody>
</table>

### Maximum Target Received Total Wide Band Power LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O</td>
<td>9.2.3.69 1.28Mcps TDD only YES reject</td>
</tr>
</tbody>
</table>

#### HS-DSCH Common System Information LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O</td>
<td>9.2.3.72 1.28Mcps TDD only YES reject</td>
</tr>
</tbody>
</table>

#### Common MAC Flows To Delete LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O</td>
<td>9.2.3.78 1.28Mcps TDD only YES reject</td>
</tr>
</tbody>
</table>

#### HS-DSCH Paging System Information LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O</td>
<td>9.2.3.73 1.28Mcps TDD only YES reject</td>
</tr>
</tbody>
</table>

#### Paging MAC Flows to Delete LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O</td>
<td>9.2.3.85 1.28Mcps TDD only YES reject</td>
</tr>
</tbody>
</table>

#### Common E-DCH System Information LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O</td>
<td>9.2.3.79 1.28Mcps TDD only YES reject</td>
</tr>
</tbody>
</table>

#### Common UL MAC Flows to Delete LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O</td>
<td>Common MAC Flows To Delete LCR 9.2.3.78 1.28Mcps TDD only YES reject</td>
</tr>
</tbody>
</table>

#### Common E-DCH MAC-d Flows to Delete LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O</td>
<td>9.2.3.86 1.28Mcps TDD only YES reject</td>
</tr>
</tbody>
</table>

#### Enhanced UE DRX Information LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O</td>
<td>9.2.3.82 1.28Mcps TDD only YES reject</td>
</tr>
</tbody>
</table>

#### Add to Non-HS-SCCH associated HS-SICH Resource Pool

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0..1</td>
<td>1.28Mcps TDD only GLOBAL reject</td>
</tr>
</tbody>
</table>

#### >Non-HS-SCCH associated HS-SICH Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0..&lt;maxno ofNonHSAHSICH&gt;</td>
<td>See note 4 below –</td>
</tr>
</tbody>
</table>

#### >>Non-HS-SCCH associated HS-SICH ID

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>INTEGER (0..255) –</td>
</tr>
</tbody>
</table>

#### >>Time Slot LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>9.2.3.24A –</td>
</tr>
</tbody>
</table>

#### >>Midamble Shift LCR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>9.2.3.7A –</td>
</tr>
<tr>
<td>Information Element</td>
<td>M</td>
<td>O</td>
</tr>
<tr>
<td>---------------------</td>
<td>---</td>
<td>----</td>
</tr>
<tr>
<td>TDD Channelisation Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modify Non-HS-SCCH associated HS-SICH Resource Pool</td>
<td>0..1</td>
<td>1.28Mcps TDD only</td>
</tr>
<tr>
<td>Non-HS-SCCH associated HS-SICH Information</td>
<td>0..&lt;max no ofNonHSA HSSICH&gt;</td>
<td>See note 4 below</td>
</tr>
<tr>
<td>Non-HS-SCCH associated HS-SICH ID</td>
<td>M</td>
<td>INTEGER (0..255)</td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>O</td>
<td>9.2.3.24A</td>
</tr>
<tr>
<td>Midamble Shift LCR</td>
<td>O</td>
<td>9.2.3.7A</td>
</tr>
<tr>
<td>TDD Channelisation Code</td>
<td>O</td>
<td>9.2.3.19</td>
</tr>
<tr>
<td>UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
</tr>
<tr>
<td>Delete from Non-HS-SCCH associated HS-SICH Resource Pool</td>
<td>0..&lt;max no ofNonHSA HSSICH&gt;</td>
<td>1.28Mcps TDD only. See note 4 below</td>
</tr>
<tr>
<td>Non-HS-SCCH associated HS-SICH ID</td>
<td>M</td>
<td>INTEGER (0..255)</td>
</tr>
<tr>
<td>Power Control GAP for CELL_FACH</td>
<td>O</td>
<td>INTEGER (1..255)</td>
</tr>
<tr>
<td>Maximum RTWP per UARFCN information LCR</td>
<td>0..&lt;max FrequencyinCell &gt;</td>
<td>1.28Mcps TDD only</td>
</tr>
<tr>
<td>UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
</tr>
<tr>
<td>Maximum Target Received Total Wide Band Power LCR</td>
<td>M</td>
<td>9.2.3.69</td>
</tr>
<tr>
<td>Out-of-sync Detection Window</td>
<td>O</td>
<td>ENUMERATED (40, 80, 160, 320, 640, ...)</td>
</tr>
<tr>
<td>Treset Usage Indicator</td>
<td>O</td>
<td>NULL</td>
</tr>
</tbody>
</table>

Note 1: This information element is a simplified representation of the ASN.1. The choice is in reality performed through the use of ProtocolIE-Single-Container within the ASN.1.

Note 2: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxFrequencyinCell are represented by separate ASN.1 structures with different criticalities.
Note 3: This information element is a simplified representation of the ASN.1. Repetitions 1 to 32 and repetitions 33 to `maxnoofHSSCCHs` are represented by separate ASN.1 structures.

Note 4: This information element is a simplified representation of the ASN.1. Repetitions 1 to 4 and repetitions 5 to `maxnoofNonHSAHSSICH` are represented by separate ASN.1 structures.

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofPDSCHSets</td>
<td>Maximum number of PDSCH Sets in a cell.</td>
</tr>
<tr>
<td>maxnoofPDSCHs</td>
<td>Maximum number of PDSCH in a cell.</td>
</tr>
<tr>
<td>maxnoofPUSCHSets</td>
<td>Maximum number of PUSCH Sets in a cell.</td>
</tr>
<tr>
<td>maxnoofPUSCHs</td>
<td>Maximum number of PUSCH in a cell.</td>
</tr>
<tr>
<td>maxnoofDLts</td>
<td>Maximum number of Downlink time slots in a cell for 3.84Mcps TDD.</td>
</tr>
<tr>
<td>maxnoofDLtsLCR</td>
<td>Maximum number of Downlink time slots in a cell for 1.28Mcps TDD.</td>
</tr>
<tr>
<td>maxnoofULts</td>
<td>Maximum number of Uplink time slots in a cell for 3.84Mcps TDD.</td>
</tr>
<tr>
<td>maxnoofULtsLCR</td>
<td>Maximum number of Uplink time slots in a cell for 1.28Mcps TDD.</td>
</tr>
<tr>
<td>maxnoofHSSCCHs</td>
<td>Maximum number of HS-SCCHs in a Cell</td>
</tr>
<tr>
<td>maxnoofHSPDSCHs</td>
<td>Maximum number of HS-PDSCHs in one time slot of a Cell for 1.28Mcps TDD</td>
</tr>
<tr>
<td>maxnoofHSPDSCHs768</td>
<td>Maximum number of HS-PDSCHs in one time slot of a Cell for 7.68Mcps TDD</td>
</tr>
<tr>
<td>maxnoofEAGCHs</td>
<td>Maximum number of E-AGCHs in a Cell</td>
</tr>
<tr>
<td>maxnoofEPUCHslots</td>
<td>Maximum number of E-PUCH time slots in a Cell for 3.84Mcps TDD and 7.68Mcps TDD</td>
</tr>
<tr>
<td>maxnoofEAGCHs</td>
<td>Maximum number of E-AGCHs in a Cell</td>
</tr>
<tr>
<td>maxnoofEPUCHslotsLCR</td>
<td>Maximum number of E-PUCH time slots in a Carrier for 1.28Mcps TDD</td>
</tr>
<tr>
<td>maxnoofEPUCHcodes</td>
<td>Maximum number of E-PUCH codes in one time slot for 1.28Mcps TDD</td>
</tr>
<tr>
<td>maxFrequencyinCell</td>
<td>Maximum number of Frequencies that can be defined in a Cell</td>
</tr>
<tr>
<td>MaxNrOfCellPortionsLCR</td>
<td>Maximum number of Cell Portions in a cell for 1.28 Mcps TDD</td>
</tr>
<tr>
<td>maxnoofNonHSAHSSICH</td>
<td>Maximum number of Non-HS-SCCH associated HS-SICH in a cell for 1.28 Mcps TDD</td>
</tr>
</tbody>
</table>
### 9.1.63 PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>E-HICH Time Offset</td>
<td>O</td>
<td>9.2.3.59</td>
<td>Applicable to 3.84Mcps and 7.68 Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>E-HICH Time Offset LCR per UARFCN</td>
<td>M</td>
<td>9.2.3.59a</td>
<td>1.2Mcps TDD only. See note 1 below</td>
<td>EACH</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>&gt;E-HICH Time Offset LCR</td>
<td>O</td>
<td>9.2.3.59</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>O</td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15]. Mandatory for 1.28Mcps TDD when using multiple frequencies.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Common System Information Response</td>
<td>O</td>
<td>9.2.2.77</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Paging System Information Response</td>
<td>O</td>
<td>9.2.2.78</td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Common E-DCH System Information Response</td>
<td>O</td>
<td>9.2.2.104</td>
<td>FDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Common System Information Response LCR</td>
<td>O</td>
<td>9.2.3.74</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Paging System Information Response LCR</td>
<td>O</td>
<td>9.2.3.75</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Common E-DCH System Information Response LCR</td>
<td>O</td>
<td>9.2.3.80</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>Ignore</td>
<td></td>
</tr>
</tbody>
</table>

**Note 1** This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxFrequencyinCell are represented by separate ASN.1 structures with different criticalities.

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxFrequencyinCell</td>
<td>Maximum number of Frequencies that can be defined in a Cell</td>
</tr>
</tbody>
</table>
### 9.1.64  PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Cause Level</td>
<td>M</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;General</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Unsuccessful DL Shared Channel Set</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;PDSCH Set ID</td>
<td>M</td>
<td>9.2.3.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Unsuccessful UL Shared Channel Set</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;PUSCH Set ID</td>
<td>M</td>
<td>9.2.3.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Extension Cause Level</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UARFCN Specific</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Unsuccessful UARFCN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;HS-Cause</td>
<td>O</td>
<td>9.2.1.6</td>
<td>Used to indicate the cause of HSDPA configuration failure.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;E-Cause</td>
<td>O</td>
<td>9.2.1.6</td>
<td>Used to indicate the cause of E-DCH related configuration failure.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-HICH Time Offset LCR per UARFCN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;UARFCN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;E-HICH Time Offset LCR</td>
<td>M</td>
<td>9.2.3.59a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Message Discriminator:**
- **Presence:** M
- **Range:** 9.2.1.45
- **Type:** YES reject

**Message Type:**
- **Presence:** M
- **Range:** 9.2.1.46
- **Type:** YES reject

**Transaction ID:**
- **Presence:** M
- **Range:** 9.2.1.62
- **Type:** YES ignore

**CHOICE Cause Level:**
- **Presence:** M
- **Range:** 9.2.1.6
- **Type:** YES ignore

**Unsuccessful DL Shared Channel Set:**
- **Presence:** M
- **Range:** 9.2.3.13
- **Type:** YES ignore

**Unsuccessful UL Shared Channel Set:**
- **Presence:** M
- **Range:** 9.2.3.13
- **Type:** YES ignore

**UARFCN Specific:**
- **Presence:** 1
- **Range:** YES ignore

**Unsuccessful UARFCN:**
- **Presence:** 0..<maxFreq inCe ll>
- **Range:** EACH ignore

**UARFCN:**
- **Presence:** M
- **Range:** 9.2.1.65
- **Type:** YES ignore

**Cause:**
- **Presence:** M
- **Range:** 9.2.1.6
- **Type:** YES ignore

**E-HICH Time Offset LCR per UARFCN:**
- **Presence:** M
- **Range:** 9.2.3.59a
- **Type:** YES ignore
>UARFCN | O | 9.2.1.65 | Corresponds to Nt [15] Used to indicate the carrier on which HSDPA or E-DCH related resources configuration failure occurs.

<table>
<thead>
<tr>
<th>Common System Information Response LCR</th>
<th>0..1</th>
<th>YES</th>
<th>ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;HS-DSCH Common System Information Response LCR</td>
<td>M</td>
<td>9.2.3.74</td>
<td>1.28Mcps TDD only</td>
</tr>
<tr>
<td>&gt;HS-DSCH Paging System Information Response LCR</td>
<td>O</td>
<td>9.2.3.75</td>
<td>1.28Mcps TDD only</td>
</tr>
<tr>
<td>&gt;Common E-DCH System Information Response LCR</td>
<td>M</td>
<td>9.2.3.80</td>
<td>1.28Mcps TDD only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofPDSCHSets</td>
<td>Maximum number of PDSCH Sets in a cell</td>
</tr>
<tr>
<td>maxnoofPUSCHSets</td>
<td>Maximum number of PUSCH Sets in a cell</td>
</tr>
<tr>
<td>maxFrequencyinCell</td>
<td>Maximum number of Frequencies that can be defined in a Cell</td>
</tr>
</tbody>
</table>

### 9.1.65 RESET REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.66 RESET RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td>–</td>
<td>reject</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
<td></td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.67 DL POWER TIMESLOT CONTROL REQUEST [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td>9.2.1.48</td>
<td></td>
<td>The reserved value “All NBCC” shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>DL Time Slot ISCP Info</td>
<td>O</td>
<td>9.2.3.4F</td>
<td></td>
<td>Mandatory for 3.84Mcps TDD and 7.68Mcps TDD. Not Applicable to 1.28Mcps TDD.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>DL Time Slot ISCP Info LCR</td>
<td>O</td>
<td>9.2.3.4P</td>
<td></td>
<td>Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD and 7.68Mcps TDD.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Primary CCPCH RSCP</td>
<td>O</td>
<td>9.2.3.11A</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary CCPCH RSCP Delta</td>
<td>O</td>
<td>9.2.3.11B</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.68 RADIO LINK PREEMPTION REQUIRED INDICATION

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RL Information</td>
<td>0..&lt;maxno offRLs&gt;</td>
<td>EACH ignore</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnooffRLs</td>
<td>Maximum number of radio links for one UE</td>
</tr>
</tbody>
</table>

### 9.1.69 INFORMATION EXCHANGE INITIATION REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Exchange ID</td>
<td>M</td>
<td>9.2.1.36C</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Information Exchange Object Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell</td>
<td>M</td>
<td>9.2.1.9</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;C-ID</td>
<td>M</td>
<td>9.2.1.36D</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Type</td>
<td>M</td>
<td>9.2.1.36C</td>
<td></td>
<td>YES rejects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Report Characteristics</td>
<td>M</td>
<td>9.2.1.36B</td>
<td></td>
<td>YES rejects</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.70 INFORMATION EXCHANGE INITIATION RESPONSE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Exchange ID</td>
<td>M</td>
<td>9.2.1.36C</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Information Exchange Object Type</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Requested Data Value</td>
<td>M</td>
<td>9.2.1.51A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.71 INFORMATION EXCHANGE INITIATION FAILURE

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Exchange ID</td>
<td>M</td>
<td>9.2.1.36C</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.72 INFORMATION REPORT

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Exchange ID</td>
<td>M</td>
<td>9.2.1.36C</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Information Exchange Object Type</td>
<td>M</td>
<td>9.2.1.17</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Requested Data Value Information</td>
<td>M</td>
<td>9.2.1.51B</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.73 INFORMATION EXCHANGE TERMINATION REQUEST

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Exchange ID</td>
<td>M</td>
<td>9.2.1.36C</td>
<td>YES ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.74 INFORMATION EXCHANGE FAILURE INDICATION

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Exchange ID</td>
<td>M</td>
<td></td>
<td>9.2.1.36C</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.1.75 CELL SYNCHRONISATION INITIATION REQUEST [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>0..15</td>
<td>9.2.1.45</td>
<td>Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>0..1</td>
<td>9.2.1.46</td>
<td>Applicable to 3.84Mcps TDD only</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>0..1</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>0..1</td>
<td>9.2.1.9</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Repetition Period</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.4J</td>
<td></td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Time Slot Information</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Transmission Initiation Information</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.4N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CSB Transmission ID</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.4G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SFN</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.4H</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell Sync Burst Code</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.4I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Initial DL Transmission Power</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Measurement Initiation Information</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.18A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Sync_DL Code Transmission Initiation Information LCR</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.18B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Sync_DL Code Measurement Initiation Information LCR</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.18C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>M</td>
<td>0..1</td>
<td>9.2.3.18D</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.76 CELL SYNCHRONISATION INITIATION RESPONSE [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.77 CELL SYNCHRONISATION INITIATION FAILURE [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td></td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.78 CELL SYNCHRONISATION RECONFIGURATION REQUEST [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td>Applicable to 3.84Mcps TDD only. For 1.28Mcps TDD, the CRNC should set this to 0 and the Node B shall ignore it</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>Number Of Cycles Per SFN Period</td>
<td>M</td>
<td>9.2.3.7B</td>
<td></td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Number Of Repetitions Per Cycle Period</td>
<td>M</td>
<td>9.2.3.7C</td>
<td></td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Transmission Reconfiguration Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CSB Transmission ID</td>
<td>M</td>
<td>9.2.3.4N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Sync Frame Number To Transmit</td>
<td>M</td>
<td></td>
<td>Sync Frame Number 9.2.3.18C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell Sync Burst Code</td>
<td>O</td>
<td>9.2.3.4G</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell Sync Burst Code Shift</td>
<td>O</td>
<td>9.2.3.4H</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Transmission Power</td>
<td>O</td>
<td></td>
<td>DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Measurement Reconfiguration Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell Sync Burst Measurement Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Sync Frame Number To Receive</td>
<td>M</td>
<td></td>
<td>Sync Frame Number 9.2.3.18C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cell Sync Burst Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;CSB Measurement ID</td>
<td>M</td>
<td>9.2.3.4I</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cell Sync Burst Code</td>
<td>M</td>
<td>9.2.3.4G</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cell Sync Burst Code Shift</td>
<td>M</td>
<td>9.2.3.4H</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Synchronisation Report Type</td>
<td>O</td>
<td>9.2.3.18E</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Synchronisation Report Characteristics</td>
<td>O</td>
<td>9.2.3.18D</td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number Of Subcycles Per Cycle Period</td>
<td>O</td>
<td>9.2.3.7D</td>
<td></td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>reject</td>
</tr>
</tbody>
</table>
### Sync_DL Code Transmission Reconfiguration Information LCR

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Applicable</th>
<th>Global</th>
<th>Reject</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;CSB Transmission ID</td>
<td>M</td>
<td>9.2.3.4N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Sync Frame Number For Transmission</td>
<td>M</td>
<td>Sync Frame Number</td>
<td>9.2.3.18C</td>
<td></td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SYNC_DL Code ID</td>
<td>O</td>
<td>9.2.3.18B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DwPCH Power</td>
<td>O</td>
<td>9.2.3.5B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Sync_DL Code Measurement Reconfiguration Information LCR

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Applicable</th>
<th>Global</th>
<th>Reject</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;SYNC_DL Code Measurement Information LCR</td>
<td>M</td>
<td>Sync Frame Number</td>
<td>9.2.3.18C</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Sync Frame Number To Receive</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Sync_DL Code Information LCR</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; CSB Measurement ID</td>
<td>M</td>
<td>9.2.3.4I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; SYNC_DL Code ID</td>
<td>M</td>
<td>9.2.3.18B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Propagation Delay Compensation</td>
<td>O</td>
<td>Timing Adjustment Value LCR</td>
<td>9.2.3.22b</td>
<td></td>
</tr>
<tr>
<td>&gt; Synchronisation Report Type</td>
<td>O</td>
<td>9.2.3.18E</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt; Synchronisation Report Characteristics</td>
<td>O</td>
<td>9.2.3.18D</td>
<td>YES</td>
<td>reject</td>
</tr>
</tbody>
</table>

#### Range Bound

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno_of_Cell_Sync_Bursts</td>
<td>Maximum number of cell synchronisation bursts per cycle for 3.84Mcps TDD</td>
</tr>
<tr>
<td>maxno_of_reception_per_Sync_Frame</td>
<td>Maximum number of cell synchronisation burst receptions per Sync Frame for 3.84Mcps TDD</td>
</tr>
<tr>
<td>maxno_of_Sync_Frames_LCR</td>
<td>Maximum number of Sync Frames per subcycle for 1.28Mcps TDD</td>
</tr>
<tr>
<td>maxno_of_reception_per_Sync_Frame_LCR</td>
<td>Maximum number of SYNC_DL Code ID receptions per Sync Frame for 1.28Mcps TDD</td>
</tr>
<tr>
<td>maxno_of_SYNC_DL_Codes_LCR</td>
<td>Maximum number of SYNC_DL Codes for 1.28Mcps TDD</td>
</tr>
</tbody>
</table>
### 9.1.79  CELL SYNCHRONISATION RECONFIGURATION RESPONSE [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.80  CELL SYNCHRONISATION RECONFIGURATION FAILURE [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.1.81  CELL SYNCHRONISATION REPORT [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Synchronisation Information</td>
<td>M</td>
<td>9.2.1.48</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Synchronisation Report Type</td>
<td>O</td>
<td>9.2.1.62</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial Phase or Steady-State Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Measured Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFN</td>
<td>M</td>
<td>9.2.1.53A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Information</td>
<td>M</td>
<td>9.2.1.53A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Cell Sync Burst Availability Indicator</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Available</td>
<td>M</td>
<td>9.2.3.4L</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Timing</td>
<td>M</td>
<td>9.2.3.4K</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst SIR</td>
<td>M</td>
<td>9.2.3.4K</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Not Available</td>
<td>M</td>
<td>9.2.3.4K</td>
<td></td>
<td></td>
<td></td>
<td>NULL</td>
</tr>
<tr>
<td>Feature</td>
<td>Presence</td>
<td>Range</td>
<td>IE Type and Reference</td>
<td>Semantics Description</td>
<td>Criticality</td>
<td>Assigned Criticality</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------</td>
<td>---------------------------</td>
<td>-----------------------</td>
<td>-----------------------</td>
<td>-------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Accumulated Clock Update</td>
<td>O</td>
<td>Timing Adjustment Value</td>
<td>9.2.3.22a</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>SYNC_DL Codes Measured Info</td>
<td></td>
<td>0..&lt;maxno ofSyncFramesLCR</td>
<td></td>
<td>Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>SFN</td>
<td>M</td>
<td>9.2.1.53A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYNC_DL Code Information</td>
<td></td>
<td>1..&lt;maxno ofreceptio nsperSyncFrameLCR &gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Sync_DL Code Available</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sync_DL Code ID Timing</td>
<td>M</td>
<td>Cell Sync Burst Timing LCR</td>
<td>9.2.3.4La</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sync_DL Code ID SIR</td>
<td>M</td>
<td>Cell Sync Burst SIR</td>
<td>9.2.3.4K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sync_DL Code Not Available</td>
<td>NULL</td>
<td>NULL</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Late-Entrant Cell</td>
<td>NULL</td>
<td>NULL</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency Acquisition</td>
<td>NULL</td>
<td>NULL</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxCellinNode B</td>
<td>Maximum number of Cells in a Node B</td>
</tr>
<tr>
<td>maxnoofCellSyncBursts</td>
<td>Maximum number of cell synchronisation bursts per cycle for 3.84Mcps TDD</td>
</tr>
<tr>
<td>maxnoofreceptiosperSyncFrame</td>
<td>Maximum number of cell synchronisation burst receptions per Sync Frame for 3.84Mcps TDD</td>
</tr>
<tr>
<td>maxnoofSyncFramesLCR</td>
<td>Maximum number of SYNC Frames per measurement reporting period for 1.28Mcps TDD</td>
</tr>
<tr>
<td>maxnoofreceptiosperSyncFrameLCR</td>
<td>Maximum number of SYNC_DL Code ID receptions per Sync Frame for 1.28Mcps TDD</td>
</tr>
</tbody>
</table>

### 9.1.82 CELL SYNCHRONISATION TERMINATION REQUEST [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSB Transmission ID</td>
<td>O</td>
<td>9.2.3.4N</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSB Measurement ID</td>
<td>O</td>
<td>9.2.3.4I</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.1.83 CELL SYNCHRONISATION FAILURE INDICATION [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>CSB Transmission ID</td>
<td>O</td>
<td>9.2.3.4N</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>CSB Measurement ID</td>
<td>O</td>
<td>9.2.3.4I</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Cause</td>
<td>M</td>
<td>9.2.1.6</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

### 9.1.84 CELL SYNCHRONISATION ADJUSTMENT REQUEST [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Cell Adjustment Information</td>
<td>EACH</td>
<td>1..&lt;maxCellinNode B&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Frame Adjustment Value</td>
<td>O</td>
<td>9.2.3.5C</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Timing Adjustment Value</td>
<td>O</td>
<td>9.2.3.22a</td>
<td>Applicable to 3.84Mcps TDD only</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;DL Transmission Power</td>
<td>O</td>
<td>9.2.1.21</td>
<td>Applicable to 3.84Mcps TDD only</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;SFN</td>
<td>O</td>
<td>9.2.1.53A</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;DwPCH Power</td>
<td>O</td>
<td>9.2.3.5B</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Timing Adjustment Value LCR</td>
<td>O</td>
<td>9.2.3.22b</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxCellinNode B</td>
<td>Maximum number of Cells in a Node B</td>
</tr>
</tbody>
</table>

### 9.1.85 CELL SYNCHRONISATION ADJUSTMENT RESPONSE [TDD]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Criticality Diagnostics</td>
<td>O</td>
<td>9.2.1.17</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>
### 9.1.86 CELL SYNCHRONISATION ADJUSTMENT FAILURE [TDD]

<table>
<thead>
<tr>
<th><strong>IE/Group Name</strong></th>
<th><strong>Presence</strong></th>
<th><strong>Range</strong></th>
<th><strong>IE Type and Reference</strong></th>
<th><strong>Semantics Description</strong></th>
<th><strong>Criticality</strong></th>
<th><strong>Assigned Criticality</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Cause Level</td>
<td>M</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt; General</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Cell Specific</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Unsuccessful Cell Information Response</td>
<td>1..&lt;maxCellinNode B&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; C-ID</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Criticality Diagnostics**

**Assigned Criticality**

<table>
<thead>
<tr>
<th><strong>Range Bound</strong></th>
<th><strong>Explanation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>maxCellinNode B</td>
<td>Maximum number of Cells in a Node B</td>
</tr>
</tbody>
</table>
## 9.1.87 Bearer Rearrangement Indication

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td></td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Signalling Bearer Request Indicator</td>
<td>O</td>
<td>9.2.1.55A</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DCHs To Re-arrange</strong></td>
<td></td>
<td>0..&lt;maxno ofDCHs&gt;</td>
<td></td>
<td>GLOBAL ignore</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;DCH ID</td>
<td>M</td>
<td>9.2.1.20</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DSCHs To Re-arrange</strong></td>
<td></td>
<td>0..&lt;maxno ofDSCHs&gt;</td>
<td></td>
<td>TDD only GLOBAL</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;DSCH ID</td>
<td>M</td>
<td>9.2.3.5a</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>USCHs To Re-arrange</strong></td>
<td></td>
<td>0..&lt;maxno ofUSCHs&gt;</td>
<td></td>
<td>TDD only GLOBAL</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;USCH ID</td>
<td>M</td>
<td>9.2.3.27</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HS-DSCHs MAC-d Flow To Re-arrange</strong></td>
<td></td>
<td>0..&lt;maxno ofMACdFlows&gt;</td>
<td></td>
<td>GLOBAL ignore</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;HS-DSCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.31I</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>E-DCHs MAC-d Flow To Re-arrange</strong></td>
<td></td>
<td>0..&lt;maxno ofEDCHM ACdFlows &gt;</td>
<td></td>
<td>GLOBAL ignore</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.29ad</td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Additional E-DCH Information Bearer Rearrangement</td>
<td></td>
<td>0..&lt;maxno ofEDCH-1</td>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release.</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transport Bearer Rearrangement Indicator for Secondary E-DCH Separate Mode</td>
<td>M</td>
<td></td>
<td>Enumerated ENUMERATED (bearer for primary carrier, bearer for secondary carrier, bearers for both primary and secondary carriers,...)</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofDCHs</td>
<td>Maximum number of DCHs for a UE</td>
</tr>
<tr>
<td>maxnoofDSCHs</td>
<td>Maximum number of DSCHs for a UE</td>
</tr>
<tr>
<td>maxnoofUSCHs</td>
<td>Maximum number of USCHs for a UE</td>
</tr>
<tr>
<td>maxnoofMACdFlows</td>
<td>Maximum number of HS-DSCH MAC-d flows</td>
</tr>
<tr>
<td>maxnoofEDCHMACdFlows</td>
<td>Maximum number of E-DCH MAC-d flows</td>
</tr>
<tr>
<td>maxnoofEDCH-1</td>
<td>Maximum number of uplink frequencies -1 for E-DCH for one UE</td>
</tr>
</tbody>
</table>

*ETSI*
9.1.88 RADIO LINK ACTIVATION COMMAND

9.1.88.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.48</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Delayed Activation Information</td>
<td></td>
<td></td>
<td>1..&lt;maxno ofRLs&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td></td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Delayed Activation Update</td>
<td>M</td>
<td></td>
<td>9.2.1.24D</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of RLs for one UE</td>
</tr>
</tbody>
</table>

9.1.88.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.48</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Delayed Activation Information</td>
<td></td>
<td></td>
<td>1..&lt;maxno ofRLs&gt;</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td></td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Delayed Activation Update</td>
<td>M</td>
<td></td>
<td>9.2.1.24D</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of RLs for one UE</td>
</tr>
</tbody>
</table>
9.1.89 RADIO LINK PARAMETER UPDATE INDICATION

9.1.89.1 FDD Message

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantic Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td></td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>HS-DSCH FDD Update Information</td>
<td>O</td>
<td>9.2.2.18Ea</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>E-DCH FDD Update Information</td>
<td>O</td>
<td>9.2.2.13DA</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Additional HS Cell Information RL Param Upd</td>
<td>0..&lt;maxno ofHSDSC\nH-1&gt;</td>
<td>9.2.2.18Ea</td>
<td>For secondary serving HS-DSCH cell. Max 1 in this 3GPP release.</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;HS-PDSCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH FDD Secondary Serving Update Information</td>
<td>M</td>
<td>9.2.2.18Eaa</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional E-DCH Cell Information RL Param Upd</td>
<td>0..&lt;maxno ofEDCH-1&gt;</td>
<td>9.2.2.138</td>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release.</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Additional E-DCH FDD Update Information</td>
<td>M</td>
<td>9.2.2.138</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofHSDSCH-1</td>
<td>Maximum number of Secondary Serving HS-DSCH cells for one UE</td>
</tr>
<tr>
<td>maxnoofEDCH-1</td>
<td>Maximum number of uplink frequencies -1 for E-DCH for one UE</td>
</tr>
</tbody>
</table>

9.1.89.2 TDD Message

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantic Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td></td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td>9.2.1.18</td>
<td></td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>HS-DSCH TDD Update Information</td>
<td>O</td>
<td>9.2.3.5GA</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>
9.1.90  MBMS NOTIFICATION UPDATE COMMAND

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modification Period</td>
<td>O</td>
<td>9.2.1.47a</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MiCH CFN</td>
<td>M</td>
<td>9.2.1.46a</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NI Information</td>
<td></td>
<td>1..&lt;maxNo ofNIs&gt;</td>
<td>GLOBAL ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;NI</td>
<td>M</td>
<td>9.2.1.47F</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Range Bound | Explanation
--- | ---
maxNoOfNIs | Maximum number of NIs

9.1.91  UE STATUS UPDATE COMMAND

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td>9.2.1.45</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>9.2.1.62</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell E-RNTI Status Information</td>
<td></td>
<td>1..&lt;maxCellinNode B&gt;</td>
<td>EACH ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Vacant E-RNTI</td>
<td></td>
<td>1..&lt;maxErtiToRelease&gt;</td>
<td>EACH ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;E-RNTI</td>
<td>M</td>
<td>9.2.1.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Range Bound | Explanation
--- | ---
maxCellinNode B | Maximum number of Cells in a Node B
maxErtiToRelease | Maximum number of E-RNTI to release per cell
9.1.92  SECONDARY UL FREQUENCY REPORT

9.1.92.1  FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node B Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.48</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Activation Information</td>
<td>M</td>
<td></td>
<td>9.2.2.128</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.1.93  SECONDARY UL FREQUENCY UPDATE INDICATION

9.1.93.1  FDD Message

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td>M</td>
<td></td>
<td>9.2.1.45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td>9.2.1.46</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td></td>
<td>9.2.1.62</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRNC Communication Context ID</td>
<td>M</td>
<td></td>
<td>9.2.1.18</td>
<td>The reserved value &quot;All CRNCCC&quot; shall not be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Activation Information</td>
<td>M</td>
<td></td>
<td>9.2.2.128</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2  Information Element Functional Definition and Contents

9.2.0  General

Subclause 9.2 presents the NBAP IE definitions in tabular format. The corresponding ASN.1 definition is presented in Subclause 9.3. In case there is a contradiction between the tabular format in Subclause 9.2 and the ASN.1 definition, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, where the tabular format shall take precedence.

When specifying information elements which are to be represented by bitstrings, if not otherwise specifically stated in the semantics description of the concerned IE or elsewhere, the following principle applies with regards to the ordering of bits:

- The first bit (leftmost bit) contains the most significant bit (MSB);
- The last bit (rightmost bit) contains the least significant bit (LSB);
- When importing bitstrings from other specifications, the first bit of the bitstring contains the first bit of the concerned information;
9.2.1 Common parameters

9.2.1.1 Add/Delete Indicator

The add/delete indicator shall notify the CRNC whether the associated resource has been added to or removed from the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add/Delete Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (Add, Delete)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.1A Allocation/Retention Priority

This parameter indicates the priority level in the allocation and retention of Node B internal resources. See Annex A.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority Level</td>
<td>M</td>
<td></td>
<td>INTEGER (0..15)</td>
<td>This IE indicates the priority of the request. Usage: Value &quot;0&quot; means &quot;Spare&quot;; It shall be treated as a logical error if received. Values between &quot;1&quot; and &quot;14&quot; are ordered in decreasing order of priority, &quot;1&quot; being the highest and &quot;14&quot; the lowest. Value &quot;15&quot; means &quot;No Priority&quot;.</td>
</tr>
<tr>
<td>Pre-emption Capability</td>
<td>M</td>
<td></td>
<td>ENUMERATED (shall not trigger pre-emption, may trigger pre-emption)</td>
<td></td>
</tr>
<tr>
<td>Pre-emption Vulnerability</td>
<td>M</td>
<td></td>
<td>ENUMERATED (not pre-emptable, pre-emptable)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.1B Alternative Format Reporting Indicator

This IE indicates if Node B may report a measurement using an alternative format.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative Format Reporting Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (Alternative format is allowed, ...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.2 Availability Status

The availability status is used to indicate more detailed information of the availability of the resource. In accordance with ref. [3], following values are defined. If the value of this IE is "empty", this implies that none of the status conditions described in ref. [3] are present.
### 9.2.1.3 BCCH Modification Time

Indicates the time after which the new system information shall be applied on BCCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCCH Modification Time</td>
<td></td>
<td></td>
<td>INTEGER (0..511)</td>
<td>All SFN values in which MIB may be mapped are allowed. The tabular description is presented in [18].</td>
</tr>
</tbody>
</table>

### 9.2.1.4 Binding ID

The Binding ID is the identifier of a user data stream.

In case of transport bearer establishment with ALCAP [2][31], this IE contains the identifier that is allocated at the Node B and that is unique for each transport bearer under establishment to/from the Node B.

If the Transport Layer Address contains an IP address [29], this IE contains the UDP port [30] intended to be used for the user plane transport.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binding ID</td>
<td></td>
<td></td>
<td>OCTET STRING (1..4,...)</td>
<td>If the Binding ID includes an UDP port, the UDP port is included in octets 1 and 2. The first octet of the UDP port field shall be included in the first octet of the Binding ID.</td>
</tr>
</tbody>
</table>

### 9.2.1.4A BLER

Void.

### 9.2.1.5 Blocking Priority Indicator

The Blocking priority indicator shall indicate the immediacy with which a resource should be blocked from use. The following priority classes shall be supported in the Blocking priority indicator.
### 9.2.1.5A Burst Mode Parameters

The *Burst Mode Parameters* IE provides information to be applied for IPDL burst mode.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blocking Priority Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (High, Normal, Low, ...)</td>
<td>&quot;High&quot; priority: Block resource immediately. &quot;Normal&quot; priority: Block resource when idle or upon timer expiry. &quot;Low&quot; priority: Block resource when idle.</td>
</tr>
</tbody>
</table>

### 9.2.1.5B Broadcast Common Transport Bearer Indication

The *Broadcast Common Transport Bearer Indication* IE is used by the Node B to inform the CRNC that the transport bearer of the existing Common Transport Channel which is indicated by the *Common Transport Channel ID* IE and *C-ID* IE, shall be used instead of establishing a new transport bearer. If there are more than one Common Transport Channels sharing the same transport bearer, Node B may include any one of these Common Transport Channels together with its corresponding C-ID in *Broadcast Common Transport Bearer Indication* IE.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burst Start</td>
<td>M</td>
<td>INTEGER (0..15)</td>
<td>See [10] and [21]</td>
<td></td>
</tr>
<tr>
<td>Burst Length</td>
<td>M</td>
<td>INTEGER (10..25)</td>
<td>See [10] and [21]</td>
<td></td>
</tr>
<tr>
<td>Burst Freq</td>
<td>M</td>
<td>INTEGER (1..16)</td>
<td>See [10] and [21]</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.5C Broadcast Reference

The *Broadcast Reference* IE is a unique identifier within the CRNC identifying the intended usage of a requested Common Transport Channel (e.g. the *Broadcast Reference* IE may identify a particular MBMS session).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadcast Reference</td>
<td></td>
<td></td>
<td>BIT STRING (SIZE(24))</td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.1.6 Cause

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Cause Group</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Radio Network Layer Cause</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Cause Group
- M

#### Radio Network Layer Cause
- M

- Choice: Cause Group
  - M

- ENUMERATED (unknown C-ID, Cell not available, Power level not supported, DL radio resources not available, UL radio resources not available, RL Already Activated/allocated, Node B Resources Unavailable, Measurement not supported for the object, Combining Resources not available, Requested configuration not supported, Synchronization failure, Priority transport channel established, SIB Origination in Node B not Supported, Requested Tx Diversity Mode not supported, Unspecified, BCCH scheduling error, Measurement Temporarily not Available, Invalid CM Setting, Reconfiguration CFN not elapsed, Number of DL codes not supported, S-CPICH not supported, Combining not supported, UL SF not supported, DL SF not supported, Common Transport Channel Type not supported, Dedicated Transport Channel Type not supported, Downlink Shared Channel Type not supported, Uplink Shared Channel Type not supported, CM not supported, Tx diversity no longer supported, Unknown Local Cell ID, ..., Number of UL codes not supported, Information temporarily not available, Information Provision not supported for the object, Cell Synchronisation not supported, Cell Synchronisation Adjustment not supported, DPC Mode Change not Supported, IPDL already activated, IPDL not supported, IPDL parameters not available, Frequency Acquisition not supported, Power Balancing status not supported).
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>compatible, Requested type of Bearer Re-arrangement not supported, Signalling Bearer Re-arrangement not supported, Bearer Re-arrangement needed, Delayed Activation not Supported, RL Timing Adjustment not supported, MICH not supported, F-DPCH Not Supported, Modification Period not available, PLCCH not supported, Continuous Packet Connectivity DTX-DRX operation not available, Continuous Packet Connectivity UE DTX Cycle not available, MIMO not available, E-DCH MAC-d PDU Size Format not available, Multi Cell operation not available) Semi-Persistent scheduling not supported, Continuous Packet Connectivity DRX not supported, Continuous Packet Connectivity DRX not available, SixtyfourQAM DL and MIMO Combined not available, S-CPICH power offset support not available, TX diversity for MIMO UE on DL Control Channels not available, Single Stream MIMO not available, Multi Cell operation with MIMO not available, Multi Cell operation with Single Stream MIMO not available, Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available, Multi Cell E-DCH operation not available)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transport Layer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt;&gt;Transport Layer Cause</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td>ENUMERATED (Transport resource unavailable, Unspecified, …)</td>
<td></td>
</tr>
<tr>
<td>Protocol</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt;&gt;Protocol Cause</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td>ENUMERATED (Transfer syntax error, Abstract syntax error (reject), Abstract syntax error (ignore and notify), Message not compatible with receiver state, Semantic error, Unspecified, Abstract syntax error (falsely constructed message), …)</td>
<td></td>
</tr>
<tr>
<td>Misc</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt;&gt;Miscellaneous Cause</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td>ENUMERATED (Control processing overload Hardware failure, O&amp;M intervention, Not enough user plane processing resources, Unspecified, …)</td>
<td></td>
</tr>
</tbody>
</table>
The meaning of the different cause values is described in the following table. In general, "not supported" cause values indicate that the concerned capability is missing. On the other hand, "not available" cause values indicate that the concerned capability is present, but insufficient resources were available to perform the requested action.

<table>
<thead>
<tr>
<th>Radio Network Layer cause</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCCH scheduling error</td>
<td>The Node B has detected an illegal BCCH schedule update (see subclause 8.2.16.3).</td>
</tr>
<tr>
<td>Bearer Re-arrangement needed</td>
<td>The Node B cannot perform the requested Radio Link Reconfiguration without bearer re-arrangement.</td>
</tr>
<tr>
<td>Cell not Available</td>
<td>The concerned cell or local cell is not available.</td>
</tr>
<tr>
<td>Cell Synchronisation not supported</td>
<td>The concerned cell(s) do not support Cell Synchronisation.</td>
</tr>
<tr>
<td>Cell Specific Tx Diversity Handling For Multi Cell Operation Not Available</td>
<td>Cell specific tx diversity handling for multi cell operation not available in the concerned cell(s)</td>
</tr>
<tr>
<td>Combining not supported</td>
<td>The Node B does not support RL combining for the concerned cells.</td>
</tr>
<tr>
<td>Combining Resources Not Available</td>
<td>The value of the received Diversity Control Field IE was set to &quot;Must&quot;, but the Node B cannot perform the requested combining.</td>
</tr>
<tr>
<td>CM not supported</td>
<td>The concerned cell(s) do not support Compressed Mode.</td>
</tr>
<tr>
<td>Common Transport Channel Type not supported</td>
<td>The concerned cell(s) do not support the RACH and/or FACH Common Transport Channel Type.</td>
</tr>
<tr>
<td>Continuous Packet Connectivity DTX-DRX operation not available</td>
<td>CPC resources for DTX-DRX operation not available in the concerned cell(s).</td>
</tr>
<tr>
<td>Continuous Packet Connectivity UE DTX Cycle not available</td>
<td>CPC resources for the UE DTX Cycle not available in the concerned cell(s).</td>
</tr>
<tr>
<td>Dedicated Transport Channel Type not supported</td>
<td>The concerned cell(s) do not support the Dedicated Transport Channel Type.</td>
</tr>
<tr>
<td>Delayed Activation not Supported</td>
<td>The concerned cell(s) do not support delayed activation of RLs.</td>
</tr>
<tr>
<td>DL Radio Resources not Available</td>
<td>The Node B does not have sufficient DL radio resources available.</td>
</tr>
<tr>
<td>DL SF not supported</td>
<td>The concerned cell(s) do not support the requested DL SF.</td>
</tr>
<tr>
<td>DL Shared Channel Type not supported</td>
<td>The concerned cell(s) do not support the Downlink Shared Channel Type.</td>
</tr>
<tr>
<td>DPC Mode Change not Supported</td>
<td>The concerned cells do not support DPC mode changes.</td>
</tr>
<tr>
<td>E-DCH MAC-d PDU Size Format not available</td>
<td>The selected E-DCH MAC-d PDU Size Format is not available in the concerned cell(s).</td>
</tr>
<tr>
<td>Frequency Acquisition not supported</td>
<td>The concerned cell(s) do not support Frequency Acquisition.</td>
</tr>
<tr>
<td>F-DPCH not supported</td>
<td>The concerned cell(s) do not support the Fractional DPCH</td>
</tr>
<tr>
<td>Information Provision not supported for the object</td>
<td>The requested information provision is not supported for the concerned object types.</td>
</tr>
<tr>
<td>Information temporarily not available</td>
<td>The requested information can temporarily not be provided.</td>
</tr>
<tr>
<td>Invalid CM Settings</td>
<td>The concerned cell(s) consider the requested Compressed Mode settings invalid.</td>
</tr>
<tr>
<td>IPDL already activated</td>
<td>The concerned cell(s) have already active IPDL ongoing.</td>
</tr>
<tr>
<td>IPDL not supported</td>
<td>The concerned cell(s) do not support the IPDL.</td>
</tr>
<tr>
<td>IPDL parameters not available</td>
<td>The concerned cell(s) do not have IPDL parameters defining IPDL to be applied.</td>
</tr>
<tr>
<td>Measurement not Supported For The Object</td>
<td>At least one of the concerned cell(s) does not support the requested measurement on the concerned object type.</td>
</tr>
<tr>
<td>Measurement Temporarily not Available</td>
<td>The Node B can temporarily not provide the requested measurement value.</td>
</tr>
<tr>
<td>MICH not supported</td>
<td>The concerned cell does not support MICH.</td>
</tr>
<tr>
<td>MIMO not available</td>
<td>MIMO resources not available in the concerned cell(s).</td>
</tr>
<tr>
<td>Modification Period not available</td>
<td>The Node B does not have modification period available.</td>
</tr>
<tr>
<td>Multi Cell operation not available</td>
<td>Multi Cell operation resources not available in the concerned cell(s)</td>
</tr>
<tr>
<td>Multi Cell operation with MIMO not available</td>
<td>Multi Cell operation resources with MIMO not available in the concerned cell(s)</td>
</tr>
<tr>
<td>Multi Cell operation with Single Stream MIMO not available</td>
<td>Multi Cell operation resources with Single Stream MIMO not available in the concerned cell(s)</td>
</tr>
<tr>
<td>Multi Cell E-DCH operation not</td>
<td>Multi Cell E-DCH operation resources not available in the concerned cell(s)</td>
</tr>
</tbody>
</table>
available cell(s)

Node B resources unavailable The Node B does not have sufficient resources available.
Number of DL codes not supported The concerned cell(s) do not support the requested number of DL codes.
Number of UL codes not supported The concerned cell(s) do not support the requested number of UL codes.
Power Level not Supported A DL power level was requested which the concerned cell(s) do not support.
Power Balancing status not compatible The power balancing status in the SRNC is not compatible with that of the Node B.
PLCCH not supported The concerned cell does not support PLCCH.
Priority transport channel established The CRNC cannot perform the requested blocking since a transport channel with a high priority is present.
RL Timing Adjustment not Supported The concerned cell(s) do not support adjustments of the RL timing.
Reconfiguration CFN not elapsed The requested action cannot be performed due to that a RADIO LINK RECONFIGURATION COMMIT message was received previously, but the concerned CFN has not yet elapsed.
Requested Configuration not Supported The concerned cell(s) do not support the requested configuration i.e. power levels, Transport Formats, physical channel parameters.
Requested Type of Bearer Re-arrangement not supported The Node B does not support the requested type of bearer re-arrangement.
Requested Tx Diversity mode not supported The concerned cell(s) do not support the requested transmit diversity mode.
RL already Activated/ allocated The Node B has already allocated an RL with the requested RL-id for this UE context.
S-CPICH not supported The concerned cell(s) do not support S-CPICH.
S-CPICH power offset support not available The support for setting up the desired power offset on S-CPICH with respect to P-CPICH is not available.
SIB Origination in Node B not Supported The Node B does not support the origination of the requested SIB for the concerned cell.
Signalling Bearer Re-arrangement not supported The Node B does not support the Signalling bearer re-arrangement.
Single Stream MIMO not available Single Stream MIMO resources not available in the concerned cell(s).
SixtyfourQAM DL and MIMO Combined not available SixtyfourQAM DL and MIMO Combined not available in the concerned cell(s).
Synchronisation Failure Loss of UL Uu synchronisation.
Cell Synchronisation Adjustment not supported The concerned cell(s) do not support Cell Synchronisation Adjustment.
TX diversity for MIMO UE on DL Control Channels not available The Node B does not have sufficient radio resources available to support transmit diversity on downlink control channels when the UE is configured in MIMO mode with P-CPICH & S-CPICH as phase references [7]
Tx diversity no longer supported Tx diversity can no longer be supported in the concerned cell.
UL Radio Resources not Available The Node B does not have sufficient UL radio resources available.
UL SF not supported The concerned cell(s) do not support the requested minimum UL SF.
UL Shared Channel Type not supported The concerned cell(s) do not support the Uplink Shared Channel Type.
Unknown C-ID The Node B is not aware of a cell with the provided C-ID.
Unknown Local Cell ID The Node B is not aware of a local cell with the provided Local Cell ID
Unspecified Sent when none of the above cause values applies but still the cause is Radio Network layer related.
Semi-Persistent scheduling not supported The concerned cell(s) do not support the Semi-Persistent scheduling operation (for 1.28Mcps TDD only)
Continuous Packet Connectivity DRX not supported The concerned cell(s) do not support the Continuous Packet Connectivity DRX operation (for 1.28Mcps TDD only)
Continuous Packet Connectivity DRX not available HSPA resources for DRX operation not available in the concerned cell(s). (for 1.28Mcps TDD only)

<table>
<thead>
<tr>
<th>Transport Network Layer cause</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport resource unavailable</td>
<td>The required transport resources are not available.</td>
</tr>
<tr>
<td>Unspecified</td>
<td>Sent when none of the above cause values applies but still the cause is</td>
</tr>
</tbody>
</table>
Protocol cause | Meaning
---|---
Abstract Syntax Error (Reject) | The received message included an abstract syntax error and the concerned criticality indicated "reject" (see subclause 10.3).
Abstract Syntax Error (Ignore and Notify) | The received message included an abstract syntax error and the concerned criticality indicated "ignore and notify" (see subclause 10.3).
Abstract syntax error (falsely constructed message) | The received message contained IEs in wrong order or with too many occurrences (see subclause 10.3).
Message not Compatible with Receiver State | The received message was not compatible with the receiver state (see subclause 10.4).
Semantic Error | The received message included a semantic error (see subclause 10.4).
Transfer Syntax Error | The received message included a transfer syntax error (see subclause 10.2).
Unspecified | Sent when none of the above cause values applies but still the cause is protocol related.

Miscellaneous cause | Meaning
---|---
Control Processing Overload | Node B control processing overload.
Hardware Failure | Node B hardware failure.
Not enough User Plane Processing Resources | Node B has insufficient user plane processing resources available.
O&M Intervention | Operation and Maintenance intervention related to Node B equipment.
Unspecified | Sent when none of the above cause values applies and the cause is not related to any of the categories Radio Network Layer, Transport Network Layer or Protocol.

9.2.1.7 CFN
Connection Frame Number for the radio connection, see ref. [17].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFN</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.8 CFN Offset
Void.

9.2.1.9 C-ID
The C-ID (Cell identifier) is the identifier of a cell in one RNC.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-ID</td>
<td></td>
<td></td>
<td>INTEGER (0..65535)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.9A Common Channels Capacity Consumption Law
The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor. [FDD - For the PRACH, the reference spreading factor shall be the minimum possible spreading factor amongst the ones defined by the RACH Slot Format IE(s) in the Common Transport Channel Setup or Reconfiguration procedures.]

This capacity consumption law indicates the consumption law to be used with the following procedures:
For the Common Transport Channel Setup procedure, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall be credited to the Capacity Credit for the Common Transport Channel Deletion one.

[FDD - For the Common Transport Channel Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited if this difference is negative).]

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the "DL cost" shall be applied to the "DL or Global Capacity Credit" and the "UL Cost" shall be applied to the "UL Capacity Credit". If it is modelled as shared resources, both the "DL cost" and the "UL cost" shall be applied to the "DL or Global Capacity Credit".

[FDD - When the Common Transport Channel Setup, Deletion or Reconfiguration procedures are used, the Capacity Credit shall be updated considering all physical channels related in these procedures (S-CCPCH, PICH, PRACH and AICH), i.e. one cost shall be credited to or debited from the Capacity Credit per physical channel.]

[FDD - The costs given in the consumption law are the costs per channelization code. When multiple channelization codes are used by a physical channel, the cost credited to or debited from the Capacity Credit for this physical channel shall be taken as N times the cost given in the consumption law, where N is the number of channelization codes.]

[TDD - When the Common Transport Channel Setup or Deletion procedures are used, the Capacity Credit shall be updated considering all physical channels related in these procedures (S-CCPCH, PICH, PRACH), i.e. one cost shall be credited to or debited from the Capacity Credit per physical channel.]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF Allocation Law</td>
<td></td>
<td>1..&lt;maxno</td>
<td></td>
<td>[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD - For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]</td>
</tr>
<tr>
<td>&gt;DL cost</td>
<td>M</td>
<td>INTEGER (0..65535)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL cost</td>
<td>M</td>
<td>INTEGER (0..65535)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofSFs</td>
<td>Maximum number of Spreading Factors</td>
</tr>
</tbody>
</table>

9.2.1.9B Common Measurement Accuracy

The Common Measurement Accuracy IE indicates the accuracy of the common measurement.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Common Measurement Accuracy</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TUTRAN-GPS Measurement Accuracy Class</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TUTRAN-GPS Measurement Accuracy Class</td>
<td>M</td>
<td></td>
<td></td>
<td>TUTRAN-GPS Accuracy Class</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9.2.1.64C</td>
</tr>
<tr>
<td>&gt;TUTRAN-GANSS Measurement Accuracy Class</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TUTRAN-GANSS Measurement Accuracy Class</td>
<td>M</td>
<td></td>
<td></td>
<td>TUTRAN-GANSS Accuracy Class</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9.2.1.98</td>
</tr>
</tbody>
</table>

9.2.1.10   Common Measurement Object Type

Void.

9.2.1.11   Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Measurement Type</td>
<td>ENUMERATED</td>
<td>Received Total Wide Band Power, Transmitted Carrier Power, Acknowledged PRACH Preambles, UL Timeslot ISCP, NotUsed-1, NotUsed-2, ... UTTRAN GPS Timing of Cell Frames for UE Positioning, SFN-SFN Observed Time Difference, Transmitted carrier power of all codes not used for HS transmission, HS-DSCH Required Power, HS-DSCH Provided Bit Rate, Received Total Wide Band Power for Cell Portion, Transmitted Carrier Power for Cell Portion, Transmitted carrier power of all codes not used for HS-PDSCH HS-SCCH E-AGCH E-RGCH or E-HICH transmission for Cell Portion, UpPCH Interference, DL Transmission Branch Load, HS-DSCH Required Power for Cell Portion, HS-DSCH Provided Bit Rate for Cell Portion, E-DCH Provided Bit Rate, E-DCH Non-serving Relative Grant Down Commands, Received Scheduled E-DCH Power Share, Received Scheduled E-DCH Power Share for Cell Portion, UTRAN GANSS Timing of Cell Frames for UE Positioning, E-DCH RACH Report, Transmitted carrier power of all codes not used for HS-PDSCH, HS-SCCH, E-AGCH, or E-HICH transmission for Cell Portion, UL Timeslot ISCP for Cell Portion, E-DCH Provided Bit Rate for Cell Portion, UpPCH Interference for Cell Portion)</td>
<td>&quot;UL Timeslot ISCP&quot; is used by TDD only, &quot;Acknowledged PRACH Preambles&quot;, 'DL Transmission Branch Load', 'E-DCH RACH Report' are used by FDD only, 'UpPCH interference' is used by 1.28 Mcps TDD only. This IE shall never be set to the values that are prefixed &quot;NotUsed-&quot;. [TDD - The IE Type &quot;Transmitted carrier power of all codes not used for HS transmission&quot; corresponds to the measurement &quot;Transmitted carrier power of all codes not used for HS-PDSCH [TDD - E-AGCH, E-HICH] or HS-SCCH transmission&quot; in [5] and [23].] [FDD - The IE Type &quot;Transmitted carrier power of all codes not used for HS transmission&quot; corresponds to the measurement &quot;Transmitted carrier power of all codes not used for HS-PDSCH HS-SCCH E-AGCH E-RGCH or E-HICH transmission&quot; in [4] and [22].]</td>
</tr>
</tbody>
</table>
9.2.1.12 Common Measurement Value

The Common Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Common Measurement Value</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transmitted Carrier Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transmitted Carrier Power Value</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>According to mapping in [22] and [23]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Received Total Wide Band Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Received Total Wide Band Power Value</td>
<td>M</td>
<td>INTEGER (0..621)</td>
<td>According to mapping in [22] and [23]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Acknowledged PRACH Preambles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Acknowledged PRACH Preamble Value</td>
<td>M</td>
<td>INTEGER (0..240,…)</td>
<td>According to mapping in [22]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Timeslot ISCP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL Timeslot ISCP</td>
<td>M</td>
<td>INTEGER (0..127)</td>
<td>According to mapping in [23]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Not used 1</td>
<td>NULL</td>
<td></td>
<td>This choice shall not be used. Ignore if received.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Not Used 2</td>
<td>NULL</td>
<td></td>
<td>This choice shall not be used. Ignore if received.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Additional Common Measurement Values</td>
<td></td>
<td></td>
<td></td>
<td>See Note 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UTRAN GPS Timing Of Cell Frames for UE Positioning</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UTRAN-GPS Measurement Value Information</td>
<td>M</td>
<td>9.2.1.64A</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SFN-SFN Observed Time Difference</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SFN-SFN Measurement Value Information</td>
<td>M</td>
<td>9.2.1.53E</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transmitted Carrier Power Of All Codes Not Used For HSTransmission</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Transmitted Carrier Power Of All Codes Not Used For HSTransmission Value</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>According to mapping in [22], measurement “Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICHTransmission” and mapping in [23], measurement “Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission”</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;HS-DSCH Required Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-DSCH Required Power</td>
<td>M</td>
<td>9.2.1.31Ic</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Value Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------</td>
<td>-----------------</td>
<td>-----------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;HS-DSCH Provided Bit Rate Value Information</td>
<td>M</td>
<td>9.2.1.31Ib</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Transmitted Carrier Power For Cell Portion</td>
<td></td>
<td>FDD Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Transmitted Carrier Power For Cell Portion Value</td>
<td>1..&lt;max NROICell IPotion s&gt;</td>
<td>GLOBAL</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Cell Portion ID</td>
<td>M</td>
<td>9.2.2.1Ca</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Transmitted Carrier Power Value</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>According to mapping in [22]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Received Total Wide Band Power For Cell Portion</td>
<td></td>
<td>FDD Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Received Total Wide Band Power For Cell Portion Value</td>
<td>1..&lt;max NROICell IPotion s&gt;</td>
<td>GLOBAL</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Cell Portion ID</td>
<td>M</td>
<td>9.2.2.1Ca</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Received Total Wide Band Power Value</td>
<td>M</td>
<td>INTEGER (0..621)</td>
<td>According to mapping in [22]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission For Cell Portion</td>
<td></td>
<td>FDD Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission For Cell Portion Value</td>
<td>1..&lt;max NROICell IPotion s&gt;</td>
<td>GLOBAL</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Cell Portion ID</td>
<td>M</td>
<td>9.2.2.1Ca</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission Value</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>According to mapping in [22]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UpPCH interference</td>
<td>1.28Mcps TDD Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UpPCH interference Value</td>
<td>M</td>
<td>INTEGER (0..127,...)</td>
<td>According to mapping in [23]</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table</td>
<td>DL Transmission Branch Load</td>
<td>FDD Only</td>
<td></td>
<td>Node B DL Transmission Branch Load Values</td>
<td>M</td>
<td>INTEGER (0..101,...)</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------</td>
<td>---------</td>
<td></td>
<td>HS-DSCH Required Power For Cell Portion Information</td>
<td>1..&lt;max NrOICel IPortion s&gt;</td>
<td>GLOBAL</td>
</tr>
<tr>
<td>Cell Portion ID</td>
<td>M</td>
<td>9.2.2.1Ca</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Required Power Value Information</td>
<td>M</td>
<td>9.2.1.31lc</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Provided Bit Rate For Cell Portion Information</td>
<td>1..&lt;max NrOICel IPortion s&gt;</td>
<td>GLOBAL</td>
<td>ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Portion ID</td>
<td>M</td>
<td>9.2.2.1Ca</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Provided Bit Rate Value Information</td>
<td>M</td>
<td>9.2.1.31lb</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Provided Bit Rate</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Provided Bit Rate Value Information</td>
<td>M</td>
<td>9.2.1.78</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Non-serving Relative Grant Down Commands</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Non-serving Relative Grant Down Commands Value Information</td>
<td>M</td>
<td>INTEGER (0..100,...)</td>
<td>Down Commands per second</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Received Scheduled E-DCH Power Share</td>
<td>FDD Only</td>
<td>According to definition in [4]</td>
<td></td>
<td>Received Scheduled E-DCH Power Share</td>
<td>f</td>
<td>YES</td>
</tr>
<tr>
<td>RSEPS Value</td>
<td>M</td>
<td>INTEGER (0..151)</td>
<td>According to mapping in [22]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTWP* Value</td>
<td>O</td>
<td>INTEGER (0..621)</td>
<td>According to mapping of RTWP in [22]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received Scheduled E-DCH Power Share for Cell Portion</td>
<td>FDD only</td>
<td>According to definition in [4]</td>
<td></td>
<td>Received Scheduled E-DCH Power Share For Cell Portion Value</td>
<td>1..&lt;max NrOICel IPortion s&gt;</td>
<td>GLOBAL</td>
</tr>
<tr>
<td>Field</td>
<td>Type</td>
<td>Value</td>
<td>Notes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>------</td>
<td>-------</td>
<td>-------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Portion ID</td>
<td>M</td>
<td>9.2.2.1Ca</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RSEPS for Cell Portion Value</td>
<td>M</td>
<td>INTEGER (0..151)</td>
<td>According to mapping in [22].</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTWP* for Cell Portion Value</td>
<td>O</td>
<td>INTEGER (0..621)</td>
<td>According to mapping of RTWP in [22]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTRAN GANSS Timing Of Cell Frames for UE Positioning</td>
<td>M</td>
<td>9.2.1.100</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH RACH Report</td>
<td></td>
<td>FDD Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH RACH Report Information</td>
<td>f..&lt;max tCommo nEDCH s &gt;</td>
<td>The maximum repetitions should be limited to 1 so that this information is reported only once for a cell.</td>
<td>GLOBAL ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Granted E-DCH RACH Resources</td>
<td>M</td>
<td>INTEGER (0..240,…)</td>
<td>According to mapping in [25]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Denied E-DCH RACH Resources</td>
<td>M</td>
<td>INTEGER (0..240,…)</td>
<td>According to mapping in [25]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power For Cell Portion LCR</td>
<td></td>
<td>1.28Mcps TDD Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power For Cell Portion Value LCR</td>
<td>f..&lt;max NrOfCel lPortion sLCR&gt;</td>
<td></td>
<td>GLOBAL ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Portion LCR ID</td>
<td>M</td>
<td>9.2.3.107</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power Value</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>According to mapping in [23]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received Total Wide Band Power For Cell Portion LCR</td>
<td></td>
<td>1.28Mcps TDD Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received Total Wide Band Power For Cell Portion Value LCR</td>
<td>f..&lt;max NrOfCel lPortion sLCR&gt;</td>
<td></td>
<td>GLOBAL ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Portion LCR ID</td>
<td>M</td>
<td>9.2.3.107</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received Total Wide Band Power Value</td>
<td>M</td>
<td>INTEGER (0..621)</td>
<td>According to mapping in [23]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, or E-HICH Transmission For Cell Portion</td>
<td></td>
<td>1.28Mcps TDD Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power Of All Codes Not Used For HS-</td>
<td>f..&lt;max NrOfCel lPortion sLCR&gt;</td>
<td></td>
<td>GLOBAL ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table: PDSCH, HS-SCCH, E-AGCH, or E-HICH Transmission For Cell Portion Value</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>------------------</td>
<td>------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Portion LCR ID</td>
<td>M</td>
<td>9.2.3.107</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, or E-HICH Transmission Value</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>According to mapping in [23]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**>>UL Timeslot ISCp For Cell Portion Value**

| UL Timeslot ISCp For Cell Portion Value | 1.28Mcps TDD Only |

| Cell Portion LCR ID | M | 9.2.3.107 |

**>>UL Timeslot ISCp For Cell Portion Value**

| UL Timeslot ISCp For Cell Portion Value | GLOBAL | ignore |

| Cell Portion LCR ID | M | 9.2.3.107 |

**>>HS-DSCH Required Power For Cell Portion LCR**

| HS-DSCH Required Power For Cell Portion Information LCR | 1.28Mcps TDD Only |

| Cell Portion LCR ID | M | 9.2.3.107 |

**>>HS-DSCH Required Power For Cell Portion Information LCR**

| HS-DSCH Required Power For Cell Portion Information LCR | GLOBAL | ignore |

| Cell Portion LCR ID | M | 9.2.3.107 |

**>>HS-DSCH Provided Bit Rate For Cell Portion LCR**

| HS-DSCH Provided Bit Rate For Cell Portion Information LCR | 1.28Mcps TDD Only |

| Cell Portion LCR ID | M | 9.2.3.107 |

**>>HS-DSCH Provided Bit Rate For Cell Portion Information LCR**

| HS-DSCH Provided Bit Rate For Cell Portion Information LCR | GLOBAL | ignore |

| Cell Portion LCR ID | M | 9.2.3.107 |

**>>E-DCH Provided Bit Rate For Cell Portion**

| E-DCH Provided Bit Rate For Cell Portion Information | 1.28Mcps TDD Only |

| Cell Portion LCR ID | M | 9.2.3.107 |

**>>E-DCH Provided Bit Rate For Cell Portion Information**

| E-DCH Provided Bit Rate For Cell Portion Information | GLOBAL | ignore |
### 9.2.1.12A Common Measurement Value Information

The Common Measurement Value Information IE provides information both on whether the Common Measurement Value is provided in the message or not and if provided also the Common Measurement Value itself.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Measurement Availability Indicator</td>
<td>M</td>
<td></td>
<td>9.2.1.12</td>
<td></td>
</tr>
<tr>
<td>&gt;Measurement Available</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Common Measurement Value</td>
<td>M</td>
<td></td>
<td>9.2.1.12</td>
<td></td>
</tr>
<tr>
<td>&gt;Measurement Not Available</td>
<td></td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.13 Common Physical Channel ID

Common Physical Channel ID is the unique identifier for one common physical channel within a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Physical Channel ID</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.13A Common Physical Channel Status Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
</tr>
<tr>
<td>Resource Operational State</td>
<td>M</td>
<td></td>
<td>9.2.1.52</td>
<td></td>
</tr>
<tr>
<td>Availability Status</td>
<td>M</td>
<td></td>
<td>9.2.1.2</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.14 Common Transport Channel ID

Common Transport Channel ID is the unique identifier for one common transport channel within a cell.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Transport Channel ID</td>
<td>M</td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.14A  Common Transport Channel Information Response

The *Common Transport Channel Information Response* IE provides information for Common Transport Channels that have been established or modified.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Transport Channel ID</td>
<td>M</td>
<td>O</td>
<td>9.2.1.14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Binding ID</td>
<td>O</td>
<td></td>
<td>9.2.1.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transport Layer Address</td>
<td>O</td>
<td></td>
<td>9.2.1.63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcast Common Transport Bearer Indication</td>
<td>O</td>
<td>9.2.1.5B</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP Multicast Data Bearer Indication</td>
<td>O</td>
<td>9.2.1.109</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.14B  Common Transport Channel Status Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Transport Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.14</td>
<td></td>
</tr>
<tr>
<td>Resource Operational State</td>
<td>M</td>
<td></td>
<td>9.2.1.52</td>
<td></td>
</tr>
<tr>
<td>Availability Status</td>
<td>M</td>
<td></td>
<td>9.2.1.2</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.15  Communication Control Port ID

A Communication Control Port corresponds to one signalling bearer between the CRNC and the Node B for the control of Node B Communication Contexts. The Node B may have multiple Communication Control Ports (one per Traffic Termination Point). The Communication Control Port is selected at creation of the Node B Communication Context. The Communication Control Port ID is the identifier of the Communication Control Port.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Control Port ID</td>
<td></td>
<td></td>
<td>INTEGER (0..65535)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.16  Configuration Generation ID

The Configuration Generation ID describes the generation of the configuration of logical resources in a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration Generation ID</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td>Value &quot;0&quot; means &quot;No configuration&quot;. At possible wraparound of the ID counter in CRNC the value &quot;0&quot; shall not be used.</td>
</tr>
</tbody>
</table>

### 9.2.1.17  Criticality Diagnostics

The *Criticality Diagnostics* IE is sent by a Node B or the CRNC when parts of a received message have not been comprehended or are missing, or if the message contained logical errors. When applicable, it contains information about which IEs that were not comprehended or were missing.
For further details on how to use the *Criticality Diagnostics* IE, see Annex C.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procedure ID</td>
<td></td>
<td>0..1</td>
<td></td>
<td>Procedure ID is to be used if Criticality Diagnostics is part of Error Indication procedure, and not within the response message of the same procedure that caused the error</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Procedure Code</td>
<td>M</td>
<td>INTEGER (0..255)</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Ddmode</td>
<td>M</td>
<td>ENUMERATED (TDD, FDD, Common, ...)</td>
<td>&quot;Common&quot; = common to FDD and TDD.</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triggering Message</td>
<td>O</td>
<td>ENUMERATED (initiating message, successful outcome, unsuccessful outcome, outcome)</td>
<td>The Triggering Message is used only if the Criticality Diagnostics is part of Error Indication.</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Procedure Criticality</td>
<td>O</td>
<td>ENUMERATED (reject, ignore, notify)</td>
<td>This Procedure Criticality is used for reporting the Criticality of the Triggering message (Procedure).</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>O</td>
<td>9.2.1.62</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Element Criticality Diagnostics</td>
<td></td>
<td>0..&lt;max nooferror</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE Criticality</td>
<td>M</td>
<td>ENUMERATED (reject, ignore, notify)</td>
<td>The IE Criticality is used for reporting the criticality of the triggering IE. The value &quot;ignore&quot; shall never be used.</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE ID</td>
<td>M</td>
<td>INTEGER (0..65535)</td>
<td>The IE ID of the not understood or missing IE</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Repetition Number</td>
<td>O</td>
<td>INTEGER (0..255)</td>
<td>The Repetition Number IE gives: for a not understood IE: The number of occurrences of the reported IE up to and including the not understood occurrence for a missing IE: The number of occurrences up to but not including the missing occurrence. Note: All the counted occurrences of the reported IE must have the same topdown hierarchical message structure of IEs with assigned criticality</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table above them.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRNC Communication Context ID</td>
<td></td>
<td></td>
<td>INTEGER (0..2^20 – 1)</td>
<td>&quot;2^20-1&quot; is a reserved value indicating all the CRNC Communication Contexts that can be reached by the Communication Control Port (All CRNCCC).</td>
</tr>
</tbody>
</table>

9.2.1.18 CRNC Communication Context ID

The CRNC Communication Context ID is the identifier of the Communication Context in the CRNC.

9.2.1.18A CTFC

The CTFC is an integer number calculated in accordance with [18], subclause 14.10. Regarding the channel ordering, for all transport channels, "TrCH1" corresponds to the transport channel having the lowest transport channel identity among all configured transport channels on this CCTrCH. "TrCH2" corresponds to the transport channel having the next lowest transport channel identity, and so on.

Table maxnooferrors

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnooferrors</td>
<td>Maximum number of IE errors allowed to be reported with a single message.</td>
</tr>
</tbody>
</table>

Table above them.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE CTFC Format</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;2 bits long</td>
<td></td>
<td></td>
<td>INTEGER (0..3)</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CTFC value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..15)</td>
<td></td>
</tr>
<tr>
<td>&gt;4 bits long</td>
<td></td>
<td></td>
<td>INTEGER (0..63)</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CTFC value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
</tr>
<tr>
<td>&gt;6 bits long</td>
<td></td>
<td></td>
<td>INTEGER (0..4095)</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CTFC value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..65535)</td>
<td></td>
</tr>
<tr>
<td>&gt;8 bits long</td>
<td></td>
<td></td>
<td>INTEGER (0..maxCTFC)</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CTFC value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..maxCTFC)</td>
<td></td>
</tr>
</tbody>
</table>
MaxCTFC

Maximum number of the CTFC value is calculated according to the following:

\[
\sum_{i=1}^{I} (L_i - 1)P_i
\]

with the notation according to ref. [18]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCH ID</td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.19 DCH Combination Indicator

Void.

### 9.2.1.20 DCH ID

The DCH ID is the identifier of an active dedicated transport channel. It is unique for each active DCH among the active DCHs simultaneously allocated for the same UE.

### 9.2.1.20A Dedicated Channels Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the [FDD - allocated Spreading Factor and the RL/RLS situation] [TDD - allocated Spreading Factor on each DPCH and the assigned timeslot]. [FDD - In Uplink, the reference spreading factor shall be the minimum spreading factor signalled in the Radio Link Setup Request message. This is signalled using the \textit{Min UL Channelisation Code Length} IE.]

This capacity consumption law indicates the consumption law to be used with the following procedures:

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration
- Radio Link Deletion
- [TDD - Physical Shared Channel Reconfiguration]

For the Radio Link Setup and Radio Link Addition procedures, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall credited to the Capacity Credit for the Radio Link Deletion procedure. For the Radio Link Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited when this difference is negative).

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the DL cost shall be applied to the DL or Global Capacity Credit and the UL Cost shall be applied to the UL Capacity Credit. If it is modelled as shared resources, both the DL costs and the UL costs shall be applied to the DL or Global Capacity Credit.

[FDD - For a Radio Link creating a Radio Link Set (first RL of a RLS), the cost for the RL (cost 2) and RLS (cost 1) shall be taken into account. When adding a Radio Link to a Radio Link Set, only the RL cost (cost 2) shall be taken into account.

In the case where multiple Radio Links are established in one procedure, for every created Radio Link Set, the first Radio Link is always the Radio Link with the lowest repetition number.]

[FDD - The costs given in the consumption law are the costs per channelization code. When multiple channelization codes are used by either the radio links, the cost credited to or debited from the Capacity Credit shall be taken as N times the cost for one code, where N is the number of channelization codes.]
[TDD - The cost for a radio link is a sum of the costs for each DPCH. For the first DPCH assigned to any user in a cell within a timeslot, the initial cost for a DPCH in a timeslot (cost 1) and the cost for a DPCH (cost 2) shall be taken into account. For any DPCH that is not the first DPCH assigned for any user in a cell within a timeslot, only the cost for a DPCH (cost 2) shall be taken into account.]

[TDD - The cost for shared channels is the sum of the costs for each PDSCH and PUSCH assigned to a PUSCH or PDSCH set. For the first PDSCH or PUSCH assigned to any user in a cell within a timeslot, the initial cost for a PDSCH/PUSCH in a timeslot (cost 1) and the cost for a PDSCH/PUSCH (cost 2) shall be taken into account. For any PDSCH/PUSCH that is not the first PDSCH/PUSCH assigned to any user in a cell within a timeslot, only the cost for a PDSCH/PUSCH (cost 2) shall be taken into account.]

[TDD - In the case of Physical Shared Channel Reconfiguration, the sum of the consumption cost of the each PDSCH/PUSCH of the previous configuration shall be credited to the capacity credit, and the sum of the consumption cost of each PDSCH/PUSCH of the new configuration shall be subtracted from the capacity credit.]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF Allocation Law</td>
<td></td>
<td>1..&lt;maxno ofSFs&gt;</td>
<td></td>
<td>[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD - For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]</td>
</tr>
<tr>
<td>&gt;DL Cost 1</td>
<td>M</td>
<td>INTEGER (0..65535)</td>
<td></td>
<td>[FDD - This is the cost of a RLS.] [TDD - This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]</td>
</tr>
<tr>
<td>&gt;DL Cost 2</td>
<td>M</td>
<td>INTEGER (0..65535)</td>
<td></td>
<td>[FDD - This is the cost of a RL.] [TDD - This is the cost of a DPCH/PDSCH/PUSCH]</td>
</tr>
<tr>
<td>&gt;UL Cost 1</td>
<td>M</td>
<td>INTEGER (0..65535)</td>
<td></td>
<td>[FDD - This is the cost of a RLS.] [TDD - This is the additional cost of the first DPCH/PDSCH/PUSCH assigned to any user in a cell within a timeslot.]</td>
</tr>
<tr>
<td>&gt;UL Cost 2</td>
<td>M</td>
<td>INTEGER (0..65535)</td>
<td></td>
<td>[FDD - This is the cost of a RL.] [TDD - This is the cost of a DPCH/PDSCH/PUSCH]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno ofSFs</td>
<td>Maximum number of Spreading Factors</td>
</tr>
</tbody>
</table>

9.2.1.20B  DL Or Global Capacity Credit

The capacity credit indicates to the CRNC the Downlink or global capacity of a Local Cell or a Local Cell Group.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL Or Global Capacity Credit</td>
<td></td>
<td></td>
<td>INTEGER (0..65535)</td>
<td></td>
</tr>
</tbody>
</table>
9.2.1.20C  DCH Information Response

The *DCH Information Response* IE provides information for DCHs that have been established or modified.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCH Information Response</td>
<td></td>
<td>1..&lt;maxnoo fDCHs&gt;</td>
<td></td>
<td>Only one DCH per set of coordinated DCHs shall be included</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;DCH ID</td>
<td>M</td>
<td></td>
<td>9.2.1.20</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td></td>
<td>9.2.1.4</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td></td>
<td>FDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Transport Bearer Not Setup Indicator</td>
<td>O</td>
<td>9.2.2.4H</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**

| maxnoo DCHs | Maximum number of DCH per UE |

9.2.1.21  DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - primary CCPCH power] configured in a cell. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols.] [FDD - If referred to an F-DPCH, it indicates the Reference F-DPCH TX Power.]

[TDD - If referred to a DPCH or PDSCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher. If referred to a SCCPCH, the *DL Power* IE specifies the maximum power of the SCCPCH.]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL Power</td>
<td></td>
<td></td>
<td>INTEGER (-350..150)</td>
<td>Value = DL Power /10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Unit: dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Range: -35.0 ... +15.0 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Step: 0.1 dB</td>
</tr>
</tbody>
</table>

9.2.1.22  Dedicated Measurement Object Type

Void.

9.2.1.23  Dedicated Measurement Type

The Dedicated Measurement Type identifies the type of measurement that shall be performed.
### Table: Dedicated Measurement Type

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dedicated Measurement Type</td>
<td></td>
<td></td>
<td>ENUMERATED (SIR, SIR Error, Transmitted Code Power, RSCP, Rx Timing Deviation, Round Trip Time, ..., Rx Timing Deviation LCR, Angle Of Arrival LCR, HS-SICH reception quality, Best Cell Portions, Rx Timing Deviation 7.68Mcps, Rx Timing Deviation 3.84 Mcps Extended, Best Cell Portions LCR)</td>
<td>“RSCP“ and “HS-SICH reception quality” are used by TDD only. “Rx Timing Deviation“ and “Rx Timing Deviation 3.84 Mcps Extended“ are used by 3.84Mcps TDD only. “Rx Timing Deviation LCR“, &quot;Angle Of Arrival LCR&quot; are used by 1.28Mcps TDD only. “Round Trip Time“, “SIR Error&quot; are used by FDD only. ‘Best Cell Portions‘ is used by FDD only. ‘Best Cell Portions LCR’ is used by 1.28Mcps TDD only. “Rx Timing Deviation 7.68Mcps“ is used by 7.68Mcps TDD only.</td>
</tr>
</tbody>
</table>

**Note:** For definitions of the measurement types refer to [4] and [5].

### 9.2.1.24 Dedicated Measurement Value

The Dedicated Measurement Value shall be the most recent value for this measurement, for which the reporting criteria were met.

---

**ETSI**
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Dedicated Measurement Value</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SIR Value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..63)</td>
<td>According to mapping in [22] and [23]</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SIR Error Value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..125)</td>
<td>According to mapping in [22]</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Transmitted Code Power Value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..127)</td>
<td>According to mapping in [22] and [23]. Values 0 to 9 and 123 to 127 shall not be used.</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;RSCP</td>
<td></td>
<td></td>
<td></td>
<td>TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;RSCP</td>
<td>M</td>
<td></td>
<td>INTEGER (0..127)</td>
<td>According to mapping in [23]</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Rx Timing Deviation Value</td>
<td></td>
<td></td>
<td></td>
<td>Applicable to 3.84Mcps TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Rx Timing Deviation</td>
<td>M</td>
<td></td>
<td>INTEGER (0..8191)</td>
<td>According to mapping in [23]</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Round Trip Time</td>
<td></td>
<td></td>
<td></td>
<td>FDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Round Trip Time</td>
<td>M</td>
<td></td>
<td>INTEGER (0..32767)</td>
<td>According to mapping in [22]</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Additional Dedicated Measurement Values</td>
<td></td>
<td></td>
<td></td>
<td>See Note 1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Rx Timing Deviation Value LCR</td>
<td></td>
<td></td>
<td></td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Rx Timing Deviation LCR</td>
<td>M</td>
<td></td>
<td>INTEGER (0..511)</td>
<td>According to mapping in [23]</td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Angle Of Arrival Value LCR</td>
<td></td>
<td></td>
<td></td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;AOA Value LCR</td>
<td>1</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;AOA LCR</td>
<td>M</td>
<td></td>
<td>INTEGER (0..719)</td>
<td>According to mapping in [23]</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;AOA LCR Accuracy Class</td>
<td>M</td>
<td></td>
<td>ENUMERATE D (A, B, C, D, E, F, G, H,...)</td>
<td>According to mapping in [23]</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-SICH Reception Quality Value</td>
<td></td>
<td></td>
<td></td>
<td>Applicable to TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-SICH Reception Quality Value</td>
<td>1</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;Failed HS-SICH</td>
<td>M</td>
<td></td>
<td>INTEGER (0..20)</td>
<td>According to mapping in [23]</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;Missed HS-SICH</td>
<td>M</td>
<td></td>
<td>INTEGER (0..20)</td>
<td>According to mapping in [23]</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;Total HS-SICH</td>
<td>M</td>
<td></td>
<td>INTEGER (0..20)</td>
<td>According to mapping in [23]</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;Failed HS-SICH LCR extension</td>
<td>O</td>
<td></td>
<td>INTEGER (0..20)</td>
<td>According to mapping in [23] Mandatory for LCR TDD when there are more than 20 failed HS-SICH</td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;Missed HS-SICH LCR extension</td>
<td>O</td>
<td></td>
<td>INTEGER (0..20)</td>
<td>According to mapping in [23] Mandatory for LCR TDD when there are more than 20 missed</td>
<td>YES reject</td>
<td></td>
</tr>
<tr>
<td>IE/Group Name</td>
<td>Presence</td>
<td>Range</td>
<td>IE Type and Reference</td>
<td>Semantics Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
<td>-------</td>
<td>-----------------------</td>
<td>-----------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Measurement Availability Indicator</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Measurement Available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Dedicated Measurement Value</td>
<td>M</td>
<td>9.2.1.24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CFN</td>
<td>O</td>
<td>9.2.1.7</td>
<td>Dedicated Measurement Time Reference</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Measurement Not Available</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**9.2.1.24A Dedicated Measurement Value Information**

The *Dedicated Measurement Value Information* IE provides information both on whether or not the Dedicated Measurement Value is provided in the message or not and if provided also the Dedicated Measurement Value itself.

**9.2.1.24B DGPS Corrections**

The DGPS Corrections IE contains DGPS information used by the UE Positioning A-GPS method. For further details on the meaning of parameters, see [28].
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPS TOW</td>
<td>M</td>
<td></td>
<td>INTEGER (0..604799)</td>
<td>Time in seconds. This field indicates the baseline time for which the corrections are</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>valid.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Status/Health</td>
<td>M</td>
<td></td>
<td>ENUMERATED (UDRE scale 1.0, UDRE scale 0.75, UDRE scale 0.5, UDRE scale 0.3, UDRE scale 0.1, no data, invalid data)</td>
<td>This field indicates the status of the differential corrections.</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>Satellite Information</td>
<td>1..&lt;max NoSat&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SatID</td>
<td>M</td>
<td>INTEGER (0..63)</td>
<td></td>
<td>Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [27].</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>&gt;IODE</td>
<td>M</td>
<td>BIT STRING (8)</td>
<td></td>
<td>This IE is the sequence number for the ephemeris for the particular satellite. It can</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>be used to determine if new ephemeris is used for calculating the corrections that are</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>provided. This eight-bit IE is incremented for each new set of ephemeris for the</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>satellite and may occupy the numerical range of [0, 239] during normal operations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UDRE</td>
<td>M</td>
<td>ENUMERATED (UDRE ≤1.0m, 1.0m &lt; UDRE ≤ 4.0m, 4.0m &lt; UDRE ≤ 8.0m, 8.0m &lt; UDRE)</td>
<td>User Differential Range Error. This field provides an estimate of the uncertainty (1-σ) in the corrections for the particular satellite. The value in this field shall be multiplied by the UDRE Scale Factor in the common Corrections Status/Health field to determine the final UDRE estimate for the particular satellite</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PRC</td>
<td>M</td>
<td>INTEGER (-2047..2047)</td>
<td>Pseudo Range Correction Unit: m (meters) Step: 0.32 meters</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Range Correction Rate</td>
<td>M</td>
<td>INTEGER (-127..127)</td>
<td>Unit: m/s Step: 0.032 m/s</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DGNSS Validity Period</td>
<td>O</td>
<td>9.2.1.125</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxNoSat</td>
<td>Maximum number of satellites for which information can be provided</td>
</tr>
</tbody>
</table>

9.2.1.24C  Delayed Activation

The *Delayed Activation* IE indicates that the activation of the DL power shall be delayed until an indicated CFN or until a separate activation indication is received.
### 9.2.1.24D  Delayed Activation Update

The *Delayed Activation Update* IE indicates a change of the activation of the DL power for a specific RL.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Delayed Activation Update</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Activate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CHOICE Activation Type</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Synchronised</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Activation CFN</td>
<td>M</td>
<td></td>
<td>CFN 9.2.1.7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Unsynchronised</td>
<td></td>
<td></td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Initial DL TX Power</td>
<td>M</td>
<td></td>
<td>DL Power 9.2.1.21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;First RLS Indicator</td>
<td>O</td>
<td></td>
<td>9.2.2.16A</td>
<td>FDD Only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Propagation Delay</td>
<td>O</td>
<td></td>
<td>9.2.2.35</td>
<td>FDD Only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Extended Propagation Delay</td>
<td>O</td>
<td></td>
<td>9.2.2.35A</td>
<td>FDD Only</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Deactivate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CHOICE Deactivation Type</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Synchronised</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Deactivation CFN</td>
<td>M</td>
<td></td>
<td>CFN 9.2.1.7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Unsynchronised</td>
<td></td>
<td></td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.24E  Discard Timer

The *Discard Timer* IE defines the time to live for a MAC-hs SDU starting from the instant of its arrival into an HSDPA Priority Queue. The Node B shall use this information to discard out-of-data MAC-hs SDUs from the HSDPA Priority Queues.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE type and reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discard Timer</td>
<td></td>
<td></td>
<td>ENUMERATED (20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 250, 300, 400, 500, 750, 1000, 1250, 1500, 1750, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 7500, …)</td>
<td>Unit: ms</td>
</tr>
</tbody>
</table>

### 9.2.1.25  Diversity Control Field

The *Diversity Control Field* indicates if the current RL may, must or must not be combined with the already existing RLS.
### IE/Group Name

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diversity Control Field</td>
<td></td>
<td></td>
<td>ENUMERATED (</td>
<td>Must, Must Not, …)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.1.26 Diversity Indication

Void.

#### 9.2.1.26A DL DPCH Timing Adjustment

Void.

#### 9.2.1.27 DSCH ID

Void.

#### 9.2.1.27A DSCH Information Response

Void.

#### 9.2.1.28 DSCH Transport Format Set

Void.

#### 9.2.1.29 DSCH Transport Format Combination Set

Void.

#### 9.2.1.29A End Of Audit Sequence Indicator

Indicates if the AUDIT RESPONSE message ends an audit sequence or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Of Audit Sequence Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (</td>
<td>“End of audit sequence” = all audit information has been provided by the Node B.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>“Not end of audit sequence” = more audit information is available.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.1.29B FN Reporting Indicator

The Frame Number Reporting Indicator indicates if the SFN or CFN shall be included together with the reported measurement value.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN Reporting Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>“FN Reporting Required, FN Reporting Not Required”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9.2.1.30  Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH [TDD - DSCH] for temporary restriction of the allocated resources due overload reason.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
</table>
| Frame Handling Priority |          |       | INTEGER (0..15)       | "0" = lowest priority, ...
|                         |          |       |                       | "15" = highest priority           |

9.2.1.31  Frame Offset

The Frame Offset is the required offset between the dedicated channel downlink transmission frames (CFN, Connection Frame Number) and the broadcast channel frame offset (Cell Frame Number). The Frame Offset is used in the translation between Connection Frame Number (CFN) on Iub/Iur and the least significant 8 bits of SFN (System Frame Number) on Uu. The Frame Offset is UE and cell specific.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td>Frames</td>
</tr>
</tbody>
</table>

9.2.1.31A  IB_OC_ID

The IB OC ID identifies the occurrence of a specific Information Block.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB OC ID</td>
<td></td>
<td></td>
<td>INTEGER (1..16)</td>
<td>Value 1 indicates the first occurrence for the specific Information Block. Value 2 indicates the second occurrence for the specific Information Block. ... Value 16 indicates the sixteenth occurrence for the specific Information Block.</td>
</tr>
</tbody>
</table>

9.2.1.31B  GPS Navigation Model & Time Recovery

This IE contains subframes 1 to 3 of the GPS navigation message. For further details on the meaning of parameters, see [27].
### IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description
--- | --- | --- | --- | ---
**Navigation Message 1to3**  &lt;\text{maxNoSat}\>  &lt;\text{maxNoSat}\>  INTEGER (0..1048575) | Time of the Week when the message is broadcast.  
>Transmission TOW | M | 1..<\text{maxNoSat}\> |  
>SatID | M | INTEGER (0..63) | Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [27].  
>TLM Message | M | BIT STRING (14) |  
>Tim Revd (C) | M | BIT STRING (2) |  
>HO-Word | M | BIT STRING (22) |  
>WN | M | BIT STRING (10) |  
>C/A or P on L2 | M | BIT STRING (2) |  
>User Range Accuracy Index | M | BIT STRING (4) |  
>SV Health | M | BIT STRING (6) |  
>IODC | M | BIT STRING (10) |  
>L2 P Data Flag | M | BIT STRING (1) |  
>SF 1 Reserved | M | BIT STRING (87) |  
>T<sub>gd</sub> | M | BIT STRING (8) |  
>t<sub>cc</sub> | M | BIT STRING (16) |  
>a<sub>f2</sub> | M | BIT STRING (8) |  
>a<sub>f1</sub> | M | BIT STRING (16) |  
>a<sub>f0</sub> | M | BIT STRING (22) |  
>C<sub>b</sub> | M | BIT STRING (16) |  
>Δ<sub>n</sub> | M | BIT STRING (16) |  
>M<sub>0</sub> | M | BIT STRING (32) |  
>C<sub>00</sub> | M | BIT STRING (16) |  
>e | M | BIT STRING (32) |  
>C<sub>sat</sub> | M | BIT STRING (16) |  
>(A)<sup>1/2</sup> | M | BIT STRING (32) |  
>l<sub>cc</sub> | M | BIT STRING (16) |  
>Fut Interval Flag | M | BIT STRING (1) |  
>AODO | M | BIT STRING (5) |  
>C<sub>0</sub> | M | BIT STRING (16) |  
>OMEGA<sub>0</sub> | M | BIT STRING (32) |  
>C<sub>00</sub> | M | BIT STRING (16) |  
>l<sub>0</sub> | M | BIT STRING (32) |  
>C<sub>00</sub> | M | BIT STRING (16) |  
>e<sub>0</sub> | M | BIT STRING (32) |  
>OMEGA<sub>0</sub> | M | BIT STRING (24) |  
>Idot | M | BIT STRING (14) |  
>Spare/zero fill | M | BIT STRING (20) |  

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxNoSat</td>
<td>Maximum number of satellites for which information can be provided</td>
</tr>
</tbody>
</table>

#### 9.2.1.31C GPS Ionospheric Model

This IE provides the information regarding the GPS Ionospheric Model. For further details on the meaning of parameters, see [27].
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>α₀</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>α₁</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>α₂</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>α₃</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>β₀</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>β₁</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>β₂</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>β₃</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.31D GPS UTC Model

This IE provides the information regarding the GPS UTC Model. For further details on the meaning of parameters, see [27].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A₁</td>
<td>M</td>
<td></td>
<td>BIT STRING (24)</td>
<td></td>
</tr>
<tr>
<td>A₀</td>
<td>M</td>
<td></td>
<td>BIT STRING (32)</td>
<td></td>
</tr>
<tr>
<td>t₁</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>Δt₁</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>Δt₁LSF</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>WN₁</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>WN₁LSF</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>DN</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
<tr>
<td>Δt₁LSF</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.31E GPS Real-Time Integrity

This IE provides the information regarding the status of the GPS constellation. For further details on the meaning of parameters, see [27].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Bad Satellites Presence</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Bad Satellites</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Satellite Information</td>
<td></td>
<td></td>
<td>1..&lt;maxNoSat&gt;</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;BadSatID</td>
<td>M</td>
<td></td>
<td>INTEGER (0..63)</td>
<td>Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [27].</td>
</tr>
<tr>
<td>&gt;No Bad Satellites</td>
<td></td>
<td>NULL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxNoSat</td>
<td>Maximum number of satellites for which information can be provided</td>
</tr>
</tbody>
</table>

### 9.2.1.31F GPS Almanac

This IE provides the information regarding the GPS Almanac. For further details on the meaning of parameters, see [27].
### Satellite Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WNₐ</td>
<td>M</td>
<td>BIT STRING (8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Satellite Information</td>
<td>M</td>
<td>1..&lt;maxNo OfSatAlmanac&gt;</td>
<td>INTEGER (0..3)</td>
<td>See Note 1.</td>
</tr>
<tr>
<td>&gt;DataID</td>
<td>M</td>
<td>INTEGER (0..3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SatID</td>
<td>M</td>
<td>INTEGER (0..63)</td>
<td>Identifies the satellite and is equal to (SV ID No - 1) where SV ID No is defined in [27].</td>
<td></td>
</tr>
<tr>
<td>&gt;e</td>
<td>M</td>
<td>BIT STRING (16)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;tₕₕ</td>
<td>M</td>
<td>BIT STRING (8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;δₙ</td>
<td>M</td>
<td>BIT STRING (16)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;OMEGADOT</td>
<td>M</td>
<td>BIT STRING (16)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SV Health</td>
<td>M</td>
<td>BIT STRING (8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;A₀</td>
<td>M</td>
<td>BIT STRING (24)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;OMEGAO₀</td>
<td>M</td>
<td>BIT STRING (24)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;M₀</td>
<td>M</td>
<td>BIT STRING (24)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ω</td>
<td>M</td>
<td>BIT STRING (24)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;af₀</td>
<td>M</td>
<td>BIT STRING (11)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;af₁</td>
<td>M</td>
<td>BIT STRING (11)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SV Global Health</td>
<td>O</td>
<td>BIT STRING (364)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note 1:** This information element is a simplified representation of the ASN.1 description. Repetitions 1 through maxNoSat and repetitions maxNoSat+1 through maxNoOfSatAlmanac are represented by separate ASN.1 structures with different criticality.

### Range Bound

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxNoOfSatAlmanac</td>
<td>Maximum number of satellite almanacs for which information can be provided</td>
</tr>
</tbody>
</table>

### 9.2.1.31G  GPS Receiver Geographical Position (GPS RX Pos)

The GPS Receiver Geographical Position is used to identify the geographical coordinates of a GPS receiver relevant for a certain Information Exchange Object.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude Sign</td>
<td>M</td>
<td></td>
<td>ENUMERATED (North, South)</td>
<td>The IE value (N) is derived by this formula: N≤2²³ X /90 &lt; N+1 X being the latitude in degree (0°..90°)</td>
</tr>
<tr>
<td>Degrees of Latitude</td>
<td>M</td>
<td>INTEGER (0..2⁻²⁻¹)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Degrees of Longitude</td>
<td>M</td>
<td>INTEGER (-2²³..2²⁻¹)</td>
<td>The IE value (N) is derived by this formula: N≤2²⁴ X /360 &lt; N+1 X being the longitude in degree (-180°..+180°)</td>
<td></td>
</tr>
<tr>
<td>Direction of Altitude</td>
<td>M</td>
<td>ENUMERATED (Height, Depth)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Altitude</td>
<td>M</td>
<td>INTEGER (0..2⁻²⁻¹)</td>
<td>The relation between the value (N) and the altitude (a) in meters it describes is N≤ a &lt;N+1, except for N=2¹⁵⁻¹ for which the range is extended to include all greater values of (a).</td>
<td></td>
</tr>
</tbody>
</table>
9.2.1.31Ga  HSDPA Capability

This parameter defines the HSDPA capability for a Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSDPA Capability</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(HSDPA Capable, HSDPA non Capable)</td>
</tr>
</tbody>
</table>

9.2.1.31H  HS-DSCH Information To Modify

The *HS-DSCH Information To Modify* IE is used for modification of HS-DSCH information in a Node B Communication Context.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH MAC-d Flow Specific Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; HS-DSCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.31I</td>
<td></td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Allocation/Retention Priority</td>
<td>O</td>
<td>9.2.1.1A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Transport Bearer Request Indicator</td>
<td>M</td>
<td>9.2.1.62A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td></td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td></td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td></td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>Priority Queue Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; CHOICE Priority Queue</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Add Priority Queue</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; Priority Queue ID</td>
<td>M</td>
<td>9.2.1.49C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; Associated HS-DSCH MAC-d Flow</td>
<td>M</td>
<td>HS-DSCH MAC-d Flow ID</td>
<td>9.2.1.31I</td>
<td>Shall only refer to an HS-DSCH MAC-d flow already existing in the old configuration. Multiple Priority Queues can be associated with the same HS-DSCH MAC-d Flow ID.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; Scheduling Priority Indicator</td>
<td>M</td>
<td>9.2.1.53H</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; T1</td>
<td>M</td>
<td>9.2.1.56a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; Discard Timer</td>
<td>O</td>
<td>9.2.1.24E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; MAC-hs Window Size</td>
<td>M</td>
<td>9.2.1.38B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; MAC-hs Guaranteed Bit Rate</td>
<td>O</td>
<td>9.2.1.38Aa</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; MAC-d PDU Size Index</td>
<td>1..&lt;maxno ofMACdPDUindexes&gt;</td>
<td>9.2.1.53I</td>
<td>Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; SID</td>
<td>M</td>
<td>9.2.1.53I</td>
<td>Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt; MAC-d PDU Size</td>
<td>M</td>
<td>9.2.1.38A</td>
<td>Shall be ignored if Maximum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field</td>
<td>Value</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;RLC Mode</td>
<td>M</td>
<td>9.2.1.52B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Maximum MAC-d PDU Size Extended</td>
<td>O</td>
<td>MAC PDU Size Extended 9.2.1.38C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;DL RLC PDU Size Format</td>
<td>O</td>
<td>9.2.1.122</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes ignore</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Modify Priority Queue</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Priority Queue ID</td>
<td>M</td>
<td>9.2.1.49C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shall only refer to a Priority Queue already existing in the old configuration.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Scheduling Priority Indicator</td>
<td>O</td>
<td>9.2.1.53H</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;T1</td>
<td>O</td>
<td>9.2.1.56a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Discard Timer</td>
<td>O</td>
<td>9.2.1.24E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;MAC-hs Window Size</td>
<td>O</td>
<td>9.2.1.38B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;MAC-hs Guaranteed Bit Rate</td>
<td>O</td>
<td>9.2.1.38Aa</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;MAC-d PDU Size Index</td>
<td>0..&lt;maxno ofMACdP DUindexes &gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Sid</td>
<td>M</td>
<td>9.2.1.53I</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;MAC-d PDU Size</td>
<td>M</td>
<td>9.2.1.38A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Maximum MAC-d PDU Size Extended</td>
<td>O</td>
<td>MAC PDU Size Extended 9.2.1.38C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;MAC-d PDU Size Format</td>
<td>O</td>
<td>9.2.1.122</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes ignore</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Delete Priority Queue</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Priority Queue ID</td>
<td>M</td>
<td>9.2.1.49C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shall only refer to a Priority Queue already existing in the old configuration.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC-hs Reordering Buffer Size for RLC-UM</td>
<td>O</td>
<td>9.2.1.38Ab</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQI Feedback Cycle k</td>
<td>O</td>
<td>9.2.2.21B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQI Repetition Factor</td>
<td>O</td>
<td>9.2.2.4Cb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACK-NACK Repetition Factor</td>
<td>O</td>
<td>9.2.2.a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQI Power Offset</td>
<td>O</td>
<td>9.2.2.4Ca</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACK Power Offset</td>
<td>O</td>
<td>9.2.2.b</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NACK Power Offset</td>
<td>O</td>
<td>9.2.2.23a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-SCCH Power Offset</td>
<td>O</td>
<td>9.2.2.18I</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement Power Offset</td>
<td>O</td>
<td>9.2.2.21C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-SCCH Code Change Grant</td>
<td>O</td>
<td>9.2.1.31L</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDD ACK NACK Power</td>
<td>O</td>
<td>9.2.3.18F</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For TDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Range Bound

<table>
<thead>
<tr>
<th>Description</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofMADflows</td>
<td>Maximum number of HS-DSCH MAC-d flows</td>
</tr>
<tr>
<td>maxnoofProQueues</td>
<td>Maximum number of Priority Queues</td>
</tr>
<tr>
<td>maxnoofMACdPDUindexes</td>
<td>Maximum number of different MAC-d PDU SIDs</td>
</tr>
</tbody>
</table>

### 9.2.1.31HA HS-DSCH Information To Modify Unsynchronised

The **HS-DSCH Information To Modify Unsynchronised** IE is used for modification of HS-DSCH information in a Node B Communication Context with the Unsynchronised Radio Link Reconfiguration procedure.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HS-DSCH MAC-d Flow Specific Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH MAC-d Flow ID</td>
<td>M</td>
<td>0..&lt;maxno ofMACdFlows&gt;</td>
<td>9.2.1.31I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Allocation/Retention Priority</td>
<td>O</td>
<td></td>
<td>9.2.1.1A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Transport Bearer Request Indicator</td>
<td>M</td>
<td></td>
<td>9.2.1.62A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Binding ID</td>
<td>O</td>
<td></td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Transport Layer Address</td>
<td>O</td>
<td></td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; TNL QoS</td>
<td>O</td>
<td></td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td>YES ignore</td>
</tr>
<tr>
<td><strong>Priority Queue Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Priority Queue ID</td>
<td>M</td>
<td></td>
<td>9.2.1.49C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Scheduling Priority Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.53H</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Discard Timer</td>
<td>O</td>
<td></td>
<td>9.2.1.24E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; MAC-hs Guaranteed Bit Rate</td>
<td>O</td>
<td></td>
<td>9.2.1.38Aa</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQI Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.2.4Ca</td>
<td>For FDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACK Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.2.2b</td>
<td>For FDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NACK Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.2.23a</td>
<td>For FDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-SCCH Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.2.18I</td>
<td>For FDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDD ACK NACK Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.3.18F</td>
<td>For TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HARQ Preamble Mode</td>
<td>O</td>
<td></td>
<td>9.2.2.18a</td>
<td>For FDD only YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-SICH SIR Target</td>
<td>O</td>
<td></td>
<td>UL SIR 9.2.1.67A</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
<td>YES ignore</td>
</tr>
<tr>
<td><strong>UE Capabilities Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; HS-DSCH Physical Layer Category</td>
<td>M</td>
<td></td>
<td>9.2.1.31Ia</td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt; 1.28 Mcps TDD Uplink Physical Channel Capability</td>
<td>O</td>
<td></td>
<td>9.2.3.5Gc</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td></td>
<td>YES ignore</td>
</tr>
<tr>
<td>&gt; Number of Supported Carriers</td>
<td>O</td>
<td></td>
<td>ENUMERATED TDD (One-one carrier, One-three carrier, Three-three carrier, One-six carrier, Three-six carrier, Six-six carrier, ...)</td>
<td>Applicable to 1.28Mcps TDD only This IE indicates the number of carrier(s) the UE can support at the same time, where 'x-y carrier' means x for the uplink, and y for the downlink.</td>
<td></td>
<td>YES reject</td>
</tr>
<tr>
<td>&gt; Multi-carrier HS-DSCH Physical Layer Category</td>
<td>O</td>
<td></td>
<td>9.2.1.31Ia</td>
<td>Applicable to 1.28Mcps TDD</td>
<td></td>
<td>YES ignore</td>
</tr>
</tbody>
</table>
### 9.2.1.31Ha  HS-DSCH Initial Capacity Allocation

The **HS-DSCH Initial Capacity Allocation** IE provides flow control information for each scheduling priority class for the HS-DSCH FP over Iub.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH Initial Capacity Allocation</td>
<td></td>
<td>1..&lt;(\text{maxnoofPrioQueues})</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Scheduling Priority Indicator</td>
<td>M</td>
<td>9.2.1.53H</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Maximum MAC-d PDU Size</td>
<td>M</td>
<td>9.2.1.38A</td>
<td>MAC-d PDU Size</td>
<td>Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HS-DSCH Initial Window Size</td>
<td>M</td>
<td>9.2.1.31Hb</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Maximum MAC-d PDU Size Extended</td>
<td>O</td>
<td>9.2.1.38C</td>
<td>MAC PDU Size Extended</td>
<td><a href="#"><em>YES ignore</em></a></td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

### Range Bound

<table>
<thead>
<tr>
<th>maxnoofMACdFlows</th>
<th>Maximum number of HS-DSCH MAC-d flows</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofPrioQueues</td>
<td>Maximum number of Priority Queues</td>
</tr>
</tbody>
</table>

### 9.2.1.31Hb  HS-DSCH Initial Window Size

Indicates the initial number of MAC-d PDUs (or octets in case **HS-DSCH MAC-d PDU Size Format** = “Flexible MAC-d PDU Size”) that may be transmitted before new credits are received from the Node B.
### IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description
--- | --- | --- | --- | ---
HS-DSCH Initial Window Size |  |  | INTEGER (1..255) | Number of MAC-d PDUs
If HS-DSCH MAC-d PDU Size Format = "Flexible MAC-d PDU Size" the credit shall be determined in octets:
credit (in octets) = Maximum MAC-d PDU Size Extended * HS-DSCH Initial Window Size

#### 9.2.1.31I HS-DSCH MAC-d Flow ID
HS-DSCH MAC-d Flow ID is the unique identifier for one MAC-d flow.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
|--- | --- | --- | --- | ---
| HS-DSCH MAC-d Flow ID |  |  | INTEGER (0..7) | |

#### 9.2.1.31IA HS-DSCH MAC-d Flows Information
The *HS-DSCH MAC-d Flows Information* IE is used for the establishment of HS-DSCH MAC-d flows for a Node B Communication Context.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH MAC-d Flow Specific Information</td>
<td>1..&lt;maxno ofMACdFlows&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Type</td>
<td>Value</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>-------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.31I</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Allocation/Retention Priority</td>
<td>M</td>
<td>9.2.1.1A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Priority Queue Information</td>
<td></td>
<td>1..&lt;maxno ofPrioQueues&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Priority Queue ID</td>
<td>M</td>
<td>9.2.1.49C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Associated HS-DSCH MAC-d Flow</td>
<td>M</td>
<td>HS-DSCH MAC-d Flow ID 9.2.1.31I</td>
<td>The HS-DSCH MAC-d Flow ID shall be one of the flow IDs defined in the HS-DSCH MAC-d Flow Specific Information of this IE. Multiple Priority Queues can be associated with the same HS-DSCH MAC-d Flow ID.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Scheduling Priority Indicator</td>
<td>M</td>
<td>9.2.1.53H</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;T1</td>
<td>M</td>
<td>9.2.1.56a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Discard Timer</td>
<td>O</td>
<td>9.2.1.24E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MAC-hs Window Size</td>
<td>M</td>
<td>9.2.1.38B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MAC-hs Guaranteed Bit Rate</td>
<td>O</td>
<td>9.2.1.38Aa</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MAC-d PDU Size Index</td>
<td></td>
<td>1..&lt;maxno ofMACdPDUindexes&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SID</td>
<td>M</td>
<td>9.2.1.53I</td>
<td>Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;MAC-d PDU Size</td>
<td>M</td>
<td>9.2.1.38A</td>
<td>Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RLC Mode</td>
<td>M</td>
<td>9.2.1.52B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum MAC-d PDU Size Extended</td>
<td>O</td>
<td>MAC PDU Size Extended 9.2.1.38C</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL RLC PDU Size Format</td>
<td>O</td>
<td>9.2.1.122</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UE Aggregate Maximum</td>
<td>O</td>
<td>NULL</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9.2.1.31IB HS-DSCH MAC-d Flows To Delete

The **HS-DSCH MAC-d Flows To Delete** IE is used for the removal of HS-DSCH MAC-d flows from a Node B Communication Context.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH MAC-d Flows To Delete</td>
<td></td>
<td>1..&lt;maxno of MAC-d Flows&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.31I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofMACdFlows</td>
<td>Maximum number of HS-DSCH MAC-d flows</td>
</tr>
</tbody>
</table>

9.2.1.31IC HS-DSCH MAC-d PDU Size Capability

This parameter defines the capability for a Local Cell to support different MAC-d PDU Size formats. If this IE is set to "Flexible Size Capable" the Local Cell is "Indexed Size Capable" and "Flexible Size Capable". If this IE has not been configured or has been set to "Indexed Size Capable" the Local Cell is only "Indexed Size Capable".

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH MAC-d PDU Size Capability</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Indexed Size Capable, Flexible Size Capable)</td>
</tr>
</tbody>
</table>

9.2.1.31ID HS-DSCH MAC-d PDU Size Format

The **HS-DSCH MAC-d PDU Size Format** IE provides information about the type of MAC-d PDU Size Format used for HS-DSCH. "Indexed MAC-d PDU Size" uses MAC-d PDU sizes based on SID IE and MAC-d PDU Size IE of MAC-d PDU Size Index IE. "Flexible MAC-d PDU Size" uses a flexible MAC-d PDU size with a maximum PDU size as defined by Maximum MAC-d PDU Size Extended IE of Priority Queue Information IE. The actual MAC-d PDU size is determined as specified in [24] and [32].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH MAC-d PDU Size Format</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Indexed MAC-d PDU Size, Flexible MAC-d PDU Size)</td>
</tr>
</tbody>
</table>

9.2.1.31la HS-DSCH Physical Layer Category

The **HS-DSCH Physical Layer Category** IE defines a set of UE radio access capabilities related to HSDPA, as defined in [33].
### 9.2.1.31aa  HS-DSCH Provided Bit Rate Value

The **HS-DSCH Provided Bit Rate Value** IE indicates the HS-DSCH Provided Bit Rate as defined in [32].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH Provided Bit Rate Value</td>
<td></td>
<td></td>
<td>INTEGER (0..2^24-1, ..., 2^24..256,000,000)</td>
<td>Expressed in bit/s for FDD, 1.28Mcps TDD and 3.84Mcps TDD. For 7.68Mcps TDD the value shall be doubled to give the value in bit/s.</td>
</tr>
</tbody>
</table>

### 9.2.1.31ib  HS-DSCH Provided Bit Rate Value Information

The **HS-DSCH Provided Bit Rate Value Information** IE reports the **HS-DSCH Provided Bit Rate Value** IE for each priority class.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH Provided Bit Rate Value</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td></td>
</tr>
<tr>
<td>&gt;Scheduling Priority Indicator</td>
<td>M</td>
<td></td>
<td>9.2.1.53H</td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Provided Bit Rate Value</td>
<td>M</td>
<td></td>
<td>9.2.1.31aa</td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxNoOfPriorityClasses</td>
<td>Maximum number of HS-DSCH Scheduling Priorities</td>
</tr>
</tbody>
</table>

### 9.2.1.31iba  HS-DSCH Required Power Value

The **HS-DSCH Required Power Value** IE indicates the minimum necessary power for a given priority class to meet the Guaranteed Bit Rate for all the established HS-DSCH connections belonging to this priority class.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH Required Power Value</td>
<td></td>
<td></td>
<td>INTEGER (0..1000)</td>
<td>Expressed in thousandths of the max transmission power</td>
</tr>
</tbody>
</table>

### 9.2.1.31lc  HS-DSCH Required Power Value Information

The **HS-DSCH Required Power Value Information** IE reports the **HS-DSCH Required Power Value** IE for each priority class. For each priority class, a list of UEs, identified by the **CRNC Communication Context** IEs, requiring a particularly high amount of power to meet the Guaranteed Bit Rate for their established HS-DSCH connections may be included. Additionally, the **HS-DSCH Required Power Per UE Weight** IE may be included for each of those UEs.
### 9.2.1.31J  HS-DSCH RNTI

The HS-DSCH RNTI is used for the UE-specific CRC in HS-SCCH and HS-DSCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH RNTI</td>
<td></td>
<td>INTEGER (0..65535)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.31K  HS-SCCH Code Change Indicator

The HS-SCCH Code Change Indicator indicates whether the HS-SCCH Code change is needed or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SCCH Code Change Indicator</td>
<td></td>
<td>ENUMERATED (HS-SCCH Code Change needed)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.31L  HS-SCCH Code Change Grant

The *HS-SCCH Code Change Grant* IE indicates that modification of HS-SCCH Codes is granted.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SCCH Code Change Grant</td>
<td></td>
<td>ENUMERATED (Change Granted)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.31M  HS-PDSCH Code Change Indicator [FDD]

The HS-PDSCH Code Change Indicator indicates whether the HS-PDSCH Code change is needed or not.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-PDSCH Code Change Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (HS-PDSCH Code Change needed)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.31N HS-PDSCH Code Change Grant [FDD]

The HS-PDSCH Code Change Grant IE indicates that modification of HS-PDSCH Codes is granted.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-PDSCH Code Change Grant</td>
<td></td>
<td></td>
<td>ENUMERATED (Change Granted)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.32 IB_SG_DATA

Segment as defined in ref. [18].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB_SG_DATA</td>
<td></td>
<td></td>
<td>BIT STRING</td>
<td>Contains “SIB data fixed” or “SIB data variable” in segment as encoded in ref. [18]. See Annex D</td>
</tr>
</tbody>
</table>

### 9.2.1.33 IB_SG_POS

The lowest position of a specific Information Block segment in the SFN cycle (IB_SG_POS < IB_SG_REP).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB_SG_POS</td>
<td></td>
<td></td>
<td>INTEGER (0..4094)</td>
<td>Only even positions are allowed. See ref. [18]</td>
</tr>
</tbody>
</table>

### 9.2.1.34 IB_SG_REP

Repetition distance for an Information Block segment. The segment shall be transmitted when SFN mod IB_SG_REP = IB_SG_POS.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB_SG_REP</td>
<td></td>
<td></td>
<td>ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096)</td>
<td>Repetition period for the IB segment in frames</td>
</tr>
</tbody>
</table>

### 9.2.1.35 IB Type

The IB Type identifies a specific system information block.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB Type</td>
<td></td>
<td></td>
<td>ENUMERATED (MIB, SB1, SB2, SIB1, SIB2, SIB3, SIB4, SIB5, SIB6, SIB7, not-Used-SIB8, not-Used-SIB9, not-Used-SIB10, SIB11, SIB12, SIB13, SIB13.1, SIB13.2, SIB13.3, SIB13.4, SIB14, SIB15, SIB15.1, SIB15.2, SIB15.3, SIB15.4, SIB16, SIB17, SIB15.4, SIB18, SIB15.5, SIB5bis, SIB11bis, SIB15bis, SIB15.1bis, SIB15.2bis, SIB15.3bis, SIB15.6, SIB15.7, SIB15.8, SIB15.2ter, SIB19)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.36 Indication Type

Void.

### 9.2.1.36A Information Exchange Object Type

Void.

### 9.2.1.36B Information Report Characteristics

The information report characteristics defines how the reporting shall be performed.
### CHOICE Information Report Characteristics Type

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### >On Demand

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### >Periodic

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### >>CHOICE Information Report Periodicity Scale

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### >>>minute

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td></td>
<td>INTEGER (1..60,...)</td>
<td>Unit: min</td>
</tr>
</tbody>
</table>

#### >>>>hour

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td></td>
<td>INTEGER (1..24,...)</td>
<td>Unit: h</td>
</tr>
</tbody>
</table>

#### >On Modification

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

>Information Threshold 9.2.1.36E

### 9.2.1.36C Information Exchange ID

The Information Exchange ID uniquely identifies any requested information per Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Exchange ID</td>
<td>M</td>
<td></td>
<td>INTEGER (0..2^20-1)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.36D Information Type

The Information Type indicates which kind of information the Node B shall provide.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Type Item</td>
<td>M</td>
<td></td>
<td>ENUMERATE D (GPS Information, DGPS Corrections, GPS RX Pos, ..., GANSS Information, DGANSS Corrections, GANSS RX Pos)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS Information</td>
<td>C-GPS</td>
<td>0..&lt;maxNo GPSItems&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GPS Information Item</td>
<td></td>
<td></td>
<td>ENUMERATE D (GPS Navigation Model &amp; Time Recovery, GPS Ionospheric Model, GPS UTC Model, GPS Almanac, GPS Real-Time Integrity, ...)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GANSS Information</td>
<td>C-GANSS</td>
<td>1</td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;GANSS Common Data</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Ionospheric Model</td>
<td>O</td>
<td>0..1</td>
<td>BOOLEAN</td>
<td>True means requested</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Additional Ionospheric Model</td>
<td>O</td>
<td></td>
<td>Additional Ionospheric Model Request 9.2.1.107d</td>
<td>Presence means requested.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;Earth Orientation Parameters</td>
<td>O</td>
<td></td>
<td>Earth Orientation Parameters Request 9.2.1.107e</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;GANSS Generic Data</td>
<td>0..&lt;maxNo GANSS&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;GANSS ID</td>
<td>O</td>
<td>9.2.1.104</td>
<td>TRUE</td>
<td>True means requested</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;GANSS Navigation Model And Time Recovery</td>
<td>O</td>
<td></td>
<td>BOOLEAN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;GANSS Time Model GNSS-GNSS</td>
<td>O</td>
<td></td>
<td>BIT STRING(9)</td>
<td>Defines the time model required. Bit 1 is the MSB and bit 9 is the LSB (see section 9.2.0). Bit 1:GPS, Bit 2:Galileo, Bit 3:QZSS,</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Characteristics/Parameter</strong></td>
<td><strong>Type</strong></td>
<td><strong>Value</strong></td>
<td><strong>Explanation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------</td>
<td>-----------</td>
<td>----------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;GANSS UTC Model</td>
<td>O</td>
<td>BOOLEAN</td>
<td>True means requested –</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;GANSS Almanac</td>
<td>O</td>
<td>BOOLEAN</td>
<td>True means requested –</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;GANSS Real Time Integrity</td>
<td>O</td>
<td>BOOLEAN</td>
<td>True means requested –</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;GANSS Data Bit Assistance</td>
<td>0..1</td>
<td>INTEGER</td>
<td>The GANSS Time Of Day for which the data bits are requested –</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;GANSS TOD</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..86399) The GANSS Time Of Day for which the data bits are requested –</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Data Bit Assistance</td>
<td>1</td>
<td>BOOLEAN</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;DGANSS Signal ID</td>
<td>M</td>
<td>BIT</td>
<td>STRING(8) Defined in [18] –</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;GANSS Data Bit Interval</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..15) Defined in [18] –</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Satellite Information</td>
<td>0..&lt;maxGA NSSSat&gt;</td>
<td>BOOLEAN</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Sat ID</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..63) Identifies the satellite and is equal to (SV ID No - 1) –</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;GANSS Additional UTC Models</td>
<td>O</td>
<td>GANSS Additional UTC Models Request 9.2.1.107g</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;GANSS Auxiliary Information</td>
<td>O</td>
<td>GANSS Auxiliary Information Request 9.2.1.107h</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SBAS ID</td>
<td>C.GANSS-ID</td>
<td>9.2.1.107b</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DGANSS Corrections Req</td>
<td>C-DGANSS Correction s</td>
<td>1</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DGANSS Signal ID</td>
<td>M</td>
<td>BIT</td>
<td>STRING(8) Defined in [18] –</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS ID</td>
<td>O</td>
<td>9.2.1.104</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Condition</strong></th>
<th><strong>Explanation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>DGANSSCorrections</td>
<td>The IE shall be present if the Information Type Item IE indicates &quot;DGANSS Corrections&quot;.</td>
</tr>
<tr>
<td>GPS</td>
<td>The IE shall be present if the Information Type Item IE indicates &quot;GPS Information&quot;.</td>
</tr>
<tr>
<td>GANSS</td>
<td>The IE shall be present if the Information Type Item IE indicates &quot;GANSS Information&quot;.</td>
</tr>
</tbody>
</table>
| GANSS-ID       | This IE shall be present if the GANSS ID IE indicates ‘SBAS’.
### 9.2.1.36E Information Threshold

The Information Threshold indicates which kind of information shall trigger the Information Reporting procedure.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Information Type Item</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DGPS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;PRC Deviation</td>
<td>M</td>
<td></td>
<td>ENUMERATED (1, 2, 5, 10, ...)</td>
<td>PRC deviation in meters from the previously reported value, which shall trigger a report</td>
</tr>
<tr>
<td>&gt;DGANSS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;PRC Deviation</td>
<td>M</td>
<td></td>
<td>ENUMERATED (1, 2, 5, 10, ...)</td>
<td>PRC deviation in meters from the previously reported value, which shall trigger a report</td>
</tr>
</tbody>
</table>

### 9.2.1.36F IPDL Indicator

Indicates if IPDL periods shall be active or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPDL Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(active, inactive)</td>
</tr>
</tbody>
</table>

### 9.2.1.37 Limited Power Increase

Void.

### 9.2.1.37A Local Cell Group ID

The Local Cell Group ID represents resources in the Node B, which have been pooled from a capacity point of view.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Cell Group ID</td>
<td></td>
<td></td>
<td>Local Cell ID</td>
<td>9.2.1.38</td>
</tr>
</tbody>
</table>

### 9.2.1.38 Local Cell ID

The local cell ID represents resources in the Node B that can be used for the configuration of a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Cell ID</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td>(0…268435455)</td>
</tr>
</tbody>
</table>
9.2.1.38A  MAC-d PDU Size

The MAC-d PDU Size provides the size in bits of the MAC-d PDU.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-d PDU Size</td>
<td></td>
<td></td>
<td>INTEGER (1..5000,...)</td>
<td>In case of E-DCH, value 8 and values not multiple of 8 shall not be used.</td>
</tr>
</tbody>
</table>

9.2.1.38Aa  MAC-hs Guaranteed Bit Rate

The MAC-hs Guaranteed Bit Rate IE indicates the guaranteed number of bits per second that Node B should deliver over the air interface under normal operating conditions (provided there is data to deliver). If the MAC-hs Guaranteed Bit Rate IE is received with the value set to 0 during RL set up or modification, no guarantee is applied.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-hs Guaranteed Bit Rate</td>
<td></td>
<td></td>
<td>INTEGER (0..2^24-1,...,2^24..256,000,000)</td>
<td>Unit: bit/s</td>
</tr>
</tbody>
</table>

9.2.1.38Ab  MAC-hs Reordering Buffer Size for RLC-UM

The MAC-hs Reordering Buffer Size for RLC-UM IE indicates the portion of the buffer in the UE that can be used for RLC-UM traffic (i.e. for Priority Queues whose RLC Mode IE is set to "RLC-UM").

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-hs Reordering Buffer Size</td>
<td></td>
<td>(0..300,...)</td>
<td>INTEGER (0..300,...)</td>
<td>Unit: kBytes And N kBytes = N*1024 Bytes. The Node B shall use this value to avoid the overflow of the MAC-hs reordering buffer.</td>
</tr>
</tbody>
</table>

9.2.1.38Ac  MAC-hs Reset Indicator

The MAC-hs Reset Indicator IE indicates that a reset of the MAC-hs is not required.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-hs Reset Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (MAC-hs Not Reset)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.38B  MAC-hs Window Size

The MAC-hs Window Size IE is used for MAC-hs/MAC-ehs PDU retransmission as defined in [32]. [FDD - the values 64 and 128 is only allowed when the MAC header type is MAC-ehs and under conditions defined in [32].]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-hs Window Size</td>
<td></td>
<td></td>
<td>ENUMERATED (4, 6, 8, 12, 16, 24, 32,..., 64, 128)</td>
<td>For 1.28Mcps TDD when TSN length is configured to 9bits, ENUMERATED (32, 64, 96, 128, 160, 192, 256,...)</td>
</tr>
</tbody>
</table>
9.2.1.38C  MAC PDU Size Extended

The **MAC PDU Size Extended** IE provides the size in octets of the MAC level PDU when an extended MAC level PDU size is required.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC PDU Size Extended</td>
<td></td>
<td></td>
<td>INTEGER (1..1504,…,1505)</td>
<td>In case of E-DCH, value 1 shall not be used</td>
</tr>
</tbody>
</table>

9.2.1.39  Maximum DL Power Capability

This parameter indicates the maximum DL power capability for a local cell or a Power Local Cell Group within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the maximum for the linear sum of the power that can be used on all branches.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum DL Power Capability</td>
<td></td>
<td></td>
<td>INTEGER (0..500)</td>
<td>Unit: dBm Range: 0..50 dB Step: 0.1 dB</td>
</tr>
</tbody>
</table>

9.2.1.40  Maximum Transmission Power

The Maximum Transmission Power is the maximum value for the linear sum of the power of all downlink physical channels, that is allowed to be used in a cell. If Transmit Diversity is applied to one downlink physical channel, the power to be considered for this downlink physical channel is the linear sum of the power used for this downlink physical channel on all branches. [1.28Mcps TDD - For a multi-frequency cell, the Maximum Transmission Power is the maximum value for the linear sum of the power of all downlink physical channels, that is allowed to be used on one frequency in a cell.] The reference point is the antenna connector.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Transmission Power</td>
<td></td>
<td></td>
<td>INTEGER (0..500)</td>
<td>Unit: dBm Range: 0..50 dB Step: 0.1 dB</td>
</tr>
</tbody>
</table>

9.2.1.40A  Measurement Availability Indicator

**Void.**

9.2.1.40B  Measurement Change Time

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Time Scale</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;millisecond</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Change</td>
<td>M</td>
<td></td>
<td>INTEGER (1..6000,….)</td>
<td>Unit: ms Range: 10..60000 ms Step: 10 ms</td>
</tr>
</tbody>
</table>

9.2.1.41  Measurement Filter Coefficient

The Measurement Filter Coefficient determines the amount of filtering to be applied for measurements.
### 9.2.1.41A Measurement Hysteresis Time

The Measurement Hysteresis Time provides the duration during which a reporting criterion has to be fulfilled for the Measurement Reporting procedure to be triggered.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Filter Coefficient</td>
<td></td>
<td></td>
<td>ENUMERATED (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19,...)</td>
<td></td>
</tr>
</tbody>
</table>

#### CHOICE Time Scale

- Millisecond

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
</table>
| Measurement Hysteresis Time Value | M        |       | INTEGER (1..6000,...) | Unit: ms
|                             |          |       |                       | Range: 10..60000 ms
|                             |          |       |                       | Step: 10 ms           |

### 9.2.1.42 Measurement ID

The Measurement ID uniquely identifies any measurement per (Node B or Communication) Control Port.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement ID</td>
<td></td>
<td></td>
<td>INTEGER (0..2^20-1)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.43 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Measurement Increase/Decrease Threshold</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Received Total Wide Band Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Received Total Wide Band Power</td>
<td>M</td>
<td>INTEGER (0..620)</td>
<td>Unit: dB Range: 0..62 dB Step: 0.1 dB</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transmitted Carrier Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transmitted Carrier Power</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>According to mapping in [22] and [23]</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Acknowledged PRACH Preambles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Acknowledged PRACH Preambles</td>
<td>M</td>
<td>INTEGER (0..240,..)</td>
<td>According to mapping in [22]</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Timeslot ISCP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL Timeslot ISCP</td>
<td>M</td>
<td>INTEGER (0..126)</td>
<td>Unit: dB Range: 0..63 dB Step: 0.5 dB</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SIR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SIR</td>
<td>M</td>
<td>INTEGER (0..62)</td>
<td>Unit: dB Range: 0..31 dB Step: 0.5 dB</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SIR Error</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SIR Error</td>
<td>M</td>
<td>INTEGER (0..124)</td>
<td>Unit: dB Range: 0..62 dB Step: 0.5 dB</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transmitted Code Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transmitted Code Power</td>
<td>M</td>
<td>INTEGER (0..112,..)</td>
<td>Unit: dB Range: 0..56 dB Step: 0.5 dB</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RSCP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;RSCP</td>
<td>M</td>
<td>INTEGER (0..126)</td>
<td>Unit: dB Range: 0..63 dB Step: 0.5 dB</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Round Trip Time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Round Trip Time</td>
<td>M</td>
<td>INTEGER (0..32766)</td>
<td>Unit: chips Range: 0.. 2047.875 chips Step: 0.625 chips</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Not Used 1</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This choice shall not be used. Reject procedure if received.</td>
</tr>
<tr>
<td>&gt;Not Used 2</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This choice shall not be used. Reject procedure if received.</td>
</tr>
<tr>
<td>&gt;Additional Measurement Thresholds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>See Note 1.</td>
</tr>
<tr>
<td>&gt;&gt;Transmitted Carrier Power Of All Codes Not Used For HSTransmission</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Transmitted Carrier Power Of All Codes Not Used For HSTransmission</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>According to mapping in [22], measurement &quot;Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICHTransmission&quot;</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Type</td>
<td>Description</td>
<td>Action</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-----------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power For Cell Portion</td>
<td>M INTEGER</td>
<td>FDD and 1.28Mcps TDD only</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power For Cell Portion</td>
<td>M INTEGER</td>
<td>Mapping identical to the one for Transmitted Carrier Power measurement in [22] and [23]</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received Total Wide Band Power For Cell Portion</td>
<td>M INTEGER</td>
<td>Unit: dB Range: 0..62 dB Step: 0.1 dB</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission For Cell Portion</td>
<td>M INTEGER</td>
<td>Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission measurement in [22]</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UpPCH interference</td>
<td>1.28Mcps</td>
<td>FDD Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UpPCH interference Value</td>
<td>M INTEGER</td>
<td>According to mapping in [23]</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received Scheduled E-DCH Power Share</td>
<td>FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RSEPS value</td>
<td>M INTEGER</td>
<td>According to mapping in [22]</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received Scheduled E-DCH Power Share For Cell Portion</td>
<td>FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH RACH Report</td>
<td>FDD only</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Denied E-DCH RACH Resources</td>
<td>M INTEGER</td>
<td>According to mapping in [25]</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, or E-HICH</td>
<td>1.28Mcps</td>
<td>FDD Only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.1.43A Measurement Recovery Behavior

This IE controls the Measurement Recovery Behavior.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Recovery Behavior</td>
<td>NULL</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.43B Measurement Recovery Reporting Indicator

This IE indicates the Measurement Recovery Reporting.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Recovery Reporting Indicator</td>
<td>NULL</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.43C Measurement Recovery Support Indicator

This IE indicates the Measurement Recovery Support.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Recovery Support Indicator</td>
<td>NULL</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.44 Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event A, B, E, F or On Modification.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHOICE Measurement Threshold</strong></td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Received Total Wide Band Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Received Total Wide Band Power</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..621)</td>
<td>According to mapping in [22] and [23]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transmitted Carrier Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transmitted Carrier Power</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..100)</td>
<td>According to mapping in [22] and [23]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Acknowledged PRACH Preambles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Acknowledged PRACH Preambles</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..240,...)</td>
<td>According to mapping in [22]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Timeslot ISCP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UL Timeslot ISCP</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..127)</td>
<td>According to mapping in [23]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SIR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SIR</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..63)</td>
<td>According to mapping in [22] and [23]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SIR Error</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SIR Error</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..125)</td>
<td>According to mapping in [22]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transmitted Code Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transmitted Code Power</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..127)</td>
<td>According to mapping in [22] and [23]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RSCP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;RSCP</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..127)</td>
<td>According to mapping in [23]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Rx Timing Deviation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Rx Timing Deviation</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..8191)</td>
<td>According to mapping in [23]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Round Trip Time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Round Trip Time</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..32767)</td>
<td>According to mapping in [22]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Not Used 1</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Not Used 2</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Additional Measurement Thresholds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;UTRAN GPS Timing Of Cell Frames For UE Positioning</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UTRAN-GPS Measurement Threshold Information</td>
<td>M</td>
<td>9.2.1.64B</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SFN-SFN Observed Time Difference</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SFN-SFN Measurement Threshold Information</td>
<td>M</td>
<td>9.2.1.53C</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Rx Timing Deviation LCR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Rx Timing Deviation LCR</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..511)</td>
<td>According to mapping in [23]</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-SICH Reception Quality</td>
<td>M</td>
<td>INTEGER (0..20)</td>
<td>According to mapping in [23]</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---</td>
<td>----------------</td>
<td>-------------------------------</td>
<td>-----</td>
<td>-------</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Transmitted Carrier Power Of All Codes Not Used For HSTransmission</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>According to mapping in [22], measurement &quot;Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission&quot; and [23], measurement &quot;Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission&quot;</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS-DSCH Required Power</td>
<td>M</td>
<td>9.2.1.31Iba</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Transmitted Carrier Power For Cell Portion</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>Mapping identical to the one for Transmitted Carrier Power measurement in [22] and [23]</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Received Total Wide Band Power For Cell Portion</td>
<td>M</td>
<td>INTEGER (0..621)</td>
<td>Mapping identical to the one for Received Total Wide Band Power measurement in [22] and [23]</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission For Cell Portion</td>
<td>M</td>
<td>INTEGER (0..100)</td>
<td>Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH, HS-SCCH, E-AGCH, E-RGCH or E-HICH Transmission measurement in [22]</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;UpPCH interference</td>
<td>M</td>
<td>INTEGER</td>
<td>According to mapping</td>
<td>YES</td>
<td>reject</td>
<td></td>
</tr>
<tr>
<td>interference Value</td>
<td>(0..127,...)</td>
<td>in [23]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------</td>
<td>---------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| >>DL Transmission Branch Load | |
| >>>DL Transmission Branch Load Value | M | INTEGER (0..101,...) | According to mapping in [22] | YES | reject |

| >>HS-DSCH Required Power For Cell Portion | |
| >>>HS-DSCH Required Power Value For Cell Portion | M | HS-DSCH Required Power Value 9.2.1.31lba | YES | reject |

| >>E-DCH Non-serving Relative Grant Down Commands | |
| >>>E-DCH Non-serving Relative Grant Down Commands Value | M | INTEGER (0..100,...) | Down Commands per second | YES | reject |

| >>Rx Timing Deviation 768 | |
| >>>Rx Timing Deviation 768 | M | INTEGER (0..65535) | According to mapping in [23] | YES | reject |

| >>Rx Timing Deviation 384 Extended | |
| >>>Rx Timing Deviation 384 Extended | M | INTEGER (0..32767) | According to mapping in [23] | YES | reject |

| >>Extended Round Trip Time | |
| >>>Extended Round Trip Time Value | M | INTEGER (32767..103041) | Continuation of intervals with step size as defined in [22] | YES | reject |

| >>Received Scheduled E-DCH Power Share | |
| >>>RSEPS value | M | INTEGER (0..151) | According to mapping in [22] | YES | reject |

| >>Additional HS-SICH Reception Quality | |
| >>>Additional HS-SICH Reception Quality Value | M | INTEGER (0..20) | According to mapping in [23] used when the Measurement Threshold Value for HS-SICH Reception Quality are more than 20, Measurement Threshold Value = 20 + IE Value | YES | reject |

| >>UTRAN GANSS Timing Of Cell Frames For UE Positioning | |
| >>>UTRAN GANSS Timing Of Cell Frames For UE Positioning Value | |

---

ETSI
9.2.1.45  Message Discriminator

This field is used to discriminate between Dedicated NBAP and Common NBAP messages.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Discriminator</td>
<td></td>
<td></td>
<td>ENUMERATED (Common, Dedicated)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.45A  Message Structure

The Message Structure IE gives information for each level with assigned criticality in an hierarchical message structure from top level down to the lowest level above the reported level for the occurred error (reported in the Information Element Criticality Diagnostics IE).
### Message Structure

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Structure</td>
<td></td>
<td>1..&lt;maxno\ of\ levels&gt;</td>
<td></td>
<td>The first repetition of the Message Structure IE corresponds to the top level of the message. The last repetition of the Message Structure IE corresponds to the level above the reported level for the occurred error of the message.</td>
</tr>
<tr>
<td>&gt;IE ID</td>
<td>M</td>
<td>INTEGER (0..65535)</td>
<td></td>
<td>The IE ID of this level's IE containing the not understood or missing IE.</td>
</tr>
<tr>
<td>&gt;Repetition Number</td>
<td>O</td>
<td>INTEGER (1..256)</td>
<td></td>
<td>The Repetition Number IE gives, if applicable, the number of occurrences of this level's reported IE up to and including the occurrence containing the not understood or missing IE.</td>
</tr>
</tbody>
</table>

**Range Bound**

| maxno\ of\ levels | Maximum number of message levels to report. The value for maxno\ of\ levels is 256. |

**9.2.1.46 Message Type**

The Message Type uniquely identifies the message being sent.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procedure ID</td>
<td>M</td>
<td>I</td>
<td>INTEGER (0..255)</td>
<td>&quot;0&quot; = Audit</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;1&quot; = Audit Required</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;2&quot; = Block Resource</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;3&quot; = Cell Deletion</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;4&quot; = Cell Reconfiguration</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;5&quot; = Cell Setup</td>
</tr>
<tr>
<td>Procedure Code</td>
<td>M</td>
<td></td>
<td>INTEGER (0..255)</td>
<td>&quot;6&quot; = Common Measurement Failure</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;7&quot; = Common Measurement Initiation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;8&quot; = Common Measurement Report</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;9&quot; = Common Measurement Termination</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;10&quot; = Common Transport Channel Delete</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;11&quot; = Common Transport Channel Reconfigure</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;12&quot; = Common Transport Channel Setup</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;13&quot; = Reset</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;14&quot; = Compressed Mode Command</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;16&quot; = Dedicated Measurement Failure</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;17&quot; = Dedicated Measurement Initiation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;18&quot; = Dedicated Measurement Report</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;19&quot; = Dedicated Measurement Termination</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;20&quot; = Downlink Power Control</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;21&quot; = Error Indication (For Dedicated Procedures)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;23&quot; = Radio Link Addition</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;24&quot; = Radio Link Deletion</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;25&quot; = Radio Link Failure</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;26&quot; = Radio Link Restoration</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;27&quot; = Radio Link Setup</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;28&quot; = Resource Status Indication</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;29&quot; = Synchronised Radio Link Reconfiguration Cancellation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;30&quot; = Synchronised Radio Link Reconfiguration Commit</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;31&quot; = Synchronised Radio Link Reconfiguration Preparation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;32&quot; = System Information Update</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;33&quot; = Unblock Resource</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;34&quot; = Unsynchronised Radio Link Reconfiguration</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;35&quot; = Error Indication (For Common Procedures)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;37&quot; = Physical Shared Channel Reconfiguration</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;38&quot; = Downlink Power Timeslot Control</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;39&quot; = Radio Link Preemption</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;40&quot; = Information Exchange Failure</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;41&quot; = Information Exchange Initiation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;42&quot; = Information Exchange Termination</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;43&quot; = Information Reporting</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;44&quot; = Cell Synchronisation Adjustment</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;45&quot; = Cell Synchronisation Initiation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;46&quot; = Cell Synchronisation Reconfiguration</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;47&quot; = Cell Synchronisation Reporting</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;48&quot; = Cell Synchronisation Termination</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;49&quot; = Cell Synchronisation Failure</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;50&quot; = Bearer Rearrangement</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;51&quot; = Radio Link Activation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;52&quot; = Radio Link Parameter Update</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;53&quot; = MBMS Notification Update</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;54&quot; = UE Status Update</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;55&quot; = Secondary UL Frequency Reporting</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;56&quot; = Secondary UL Frequency Update</td>
</tr>
<tr>
<td>Dmode</td>
<td>M</td>
<td></td>
<td>ENUMERATED (TDD, FDD,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Common = common to FDD and TDD.</td>
<td></td>
</tr>
</tbody>
</table>
9.2.1.46a MICH CFN

The MICH CFN indicates the Connection Frame Number for the MICH. It corresponds to the Cell SFN of the frame in which the start of the S-CCPCH frame is located, see ref [7].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICH CFN</td>
<td></td>
<td></td>
<td>INTEGER (0..4095)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.46A Minimum DL Power Capability

This parameter indicates the minimum DL power capability for a local cell within the Node B. The reference point is the antenna connector. If Transmit Diversity can be used in the local cell, the parameter indicates the minimum for the linear sum of the power that can be used on all branches.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum DL Power Capability</td>
<td></td>
<td></td>
<td>INTEGER (0..800)</td>
<td>Unit: dBm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Range: -30 .. +50 dBm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Step: 0.1 dB</td>
</tr>
</tbody>
</table>

9.2.1.47 Minimum Spreading Factor

This parameter indicates the minimum spreading factor supported at a cell within the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Spreading Factor</td>
<td></td>
<td></td>
<td>ENUMERATED (4, 8, 16, 32, 64, 128, 256, 512)</td>
<td>[TDD - Mapping scheme for the minimum spreading factor 1 and 2: '256' means 1 '512' means 2]</td>
</tr>
</tbody>
</table>

9.2.1.47a Modification Period

The Modification Period of the MICH, see ref. [18].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modification Period</td>
<td></td>
<td></td>
<td>ENUMERATED (1280, 2560, 5120, 10240, ...)</td>
<td>Unit: ms</td>
</tr>
</tbody>
</table>

9.2.1.47A N_INSYNC_IND

This parameter is used by the Node B for achievement/re-achievement of UL synchronisation on the Uu interface as defined in ref. [10] and [21].
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N_INSYNC_IND</td>
<td></td>
<td></td>
<td>INTEGER (1..256)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.47B N_OUTSYNC_IND

This parameter defines the number of consecutive out-of-sync indications after which the timer T_RLFAILURE shall be started (see also ref. [10] and [21]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N_OUTSYNC_IND</td>
<td></td>
<td></td>
<td>INTEGER (1..256)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.47C Neighbouring FDD Cell Measurement Information

This IE provides information on the FDD neighbouring cells used for the purpose of measurements.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC-Id</td>
<td>M</td>
<td></td>
<td>9.2.1.65B</td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>M</td>
<td></td>
<td>9.2.1.65</td>
<td>Corresponds to Nd [14]</td>
</tr>
<tr>
<td>Primary Scrambling Code</td>
<td>M</td>
<td></td>
<td>9.2.2.34</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.47D Neighbouring TDD Cell Measurement Information

This IE provides information on the 3.84Mcps TDD neighbouring cells used for the purpose of measurements. Since the measurement can be performed on every time slot and midamble shift, the Time Slot IE and Midamble Shift And Burst Type IE shall be included if available.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC-Id</td>
<td>M</td>
<td></td>
<td>9.2.1.65B</td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>M</td>
<td></td>
<td>9.2.1.65</td>
<td>Corresponds to Ni [15]</td>
</tr>
<tr>
<td>Cell Parameter ID</td>
<td>M</td>
<td></td>
<td>9.2.3.4</td>
<td></td>
</tr>
<tr>
<td>Time Slot</td>
<td>O</td>
<td></td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>Midamble Shift And Burst Type</td>
<td>O</td>
<td></td>
<td>9.2.3.7</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.47E Neighbouring TDD Cell Measurement Information LCR

This IE provides information on the neighbouring 1.28Mcps TDD cells used for the purpose of measurements. Since the measurement can be performed on every time slot and midamble shift, the Time Slot LCR IE and Midamble Shift LCR IE shall be included if available.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC-Id</td>
<td>M</td>
<td></td>
<td>9.2.1.65B</td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>M</td>
<td></td>
<td>9.2.1.65</td>
<td>Corresponds to Ni [15]</td>
</tr>
<tr>
<td>Cell Parameter ID</td>
<td>M</td>
<td></td>
<td>9.2.3.4</td>
<td></td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td>O</td>
<td></td>
<td>9.2.3.24A</td>
<td></td>
</tr>
<tr>
<td>Midamble Shift LCR</td>
<td>O</td>
<td></td>
<td>9.2.3.7A</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.47F NI

The NI IE provides a Notification Indicator determined as specified in [37].
### 9.2.1.48 Node B Communication Context ID

The Node B Communication Context ID is the identifier of the Communication Context in the Node B. It corresponds to the dedicated resources which are necessary for an UE using one or more dedicated channels in a given Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Node B Communication Context ID</td>
<td></td>
<td></td>
<td>INTEGER (0..65535)</td>
<td>&quot;2^20-1&quot; is a reserved value indicating all the existing and future Node B Communication Contexts that can be reached by the Communication Control Port (All NBCC).</td>
</tr>
</tbody>
</table>
9.2.1.49D Process Memory Size

The Process Memory Size IE is the size of an HARQ process in the Node B expressed in bits. It provides the maximum number of soft channel bits in the virtual IR buffer [8] or [34].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Memory Size</td>
<td></td>
<td></td>
<td>ENUMERATED (800, 1600, 2400, 3200, 4000, 4800, 5600, 6400, 7200, 8000, 8800, 9600, 10400, 11200, 12000, 12800, 13600, 14400, 15200, 16000, 17600, 19200, 20800, 22400, 24000, 25600, 27200, 28800, 30400, 32000, 36000, 40000, 44000, 48000, 52000, 56000, 60000, 64000, 68000, 72000, 76000, 80000, 88000, 96000, 104000, 112000, 120000, 128000, 136000, 144000, 152000, 160000, 176000, 192000, 208000, 224000, 240000, 256000, 272000, 288000, 304000,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.50 Puncture Limit

The Puncture Limit limits the amount of puncturing that can be applied in order to minimise the number of dedicated physical channels.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Puncture Limit</td>
<td></td>
<td></td>
<td>INTEGER (0..15)</td>
<td>Unit: % Range: 40..100 % Step: 4 % 100% means no puncturing [FDD - Value &quot;0&quot; is not applicable for E-DPCH].</td>
</tr>
</tbody>
</table>

9.2.1.50A QE-Selector

The QE-Selector indicates from which source the value for the quality estimate (QE) shall be taken.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QE-Selector</td>
<td></td>
<td></td>
<td>ENUMERATED (Selected, Non-Selected)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.51 Report Characteristics

The report characteristics define how the reporting shall be performed.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Report Characteristics</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;On Demand</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Periodic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Report Periodicity</td>
<td>M</td>
<td>9.2.1.51a</td>
<td>The frequency with which the Node B shall send measurement reports.</td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Event A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Threshold</td>
<td>M</td>
<td>9.2.1.44</td>
<td>The threshold for which the Node B shall trigger a measurement report.</td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Hysteresis Time</td>
<td>O</td>
<td>9.2.1.41A</td>
<td></td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Event B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Threshold</td>
<td>M</td>
<td>9.2.1.44</td>
<td>The threshold for which the Node B shall trigger a measurement report.</td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Hysteresis Time</td>
<td>O</td>
<td>9.2.1.41A</td>
<td></td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Event C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Increase/Decrease Threshold</td>
<td>M</td>
<td>9.2.1.43</td>
<td></td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Change Time</td>
<td>M</td>
<td>9.2.1.40B</td>
<td>The time the measurement entity shall rise on (in ms), in order to trigger a measurement report.</td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Event D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Increase/Decrease Threshold</td>
<td>M</td>
<td>9.2.1.43</td>
<td></td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Change Time</td>
<td>M</td>
<td>9.2.1.40B</td>
<td>The time the measurement entity shall fall (in ms), in order to trigger a measurement report.</td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Event E</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Threshold 1</td>
<td>M</td>
<td>Measurement Threshold 9.2.1.44</td>
<td></td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Threshold 2</td>
<td>O</td>
<td>Measurement Threshold 9.2.1.44</td>
<td></td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Hysteresis Time</td>
<td>O</td>
<td>9.2.1.41A</td>
<td></td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Report Periodicity</td>
<td>O</td>
<td>9.2.1.51a</td>
<td>The frequency with which the Node B shall send measurement reports.</td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Event F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Threshold 1</td>
<td>M</td>
<td>Measurement Threshold 9.2.1.44</td>
<td></td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Threshold 2</td>
<td>O</td>
<td>Measurement Threshold 9.2.1.44</td>
<td></td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Measurement Hysteresis Time</td>
<td>O</td>
<td>9.2.1.41A</td>
<td></td>
<td>−</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Report Periodicity</td>
<td>O</td>
<td>9.2.1.51a</td>
<td>The frequency with which the Node B shall send measurement reports.</td>
<td>−</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
measurement reports.

9.2.1.51a Report Periodicity

The Report Periodicity defines the frequency at which the Node B shall send measurement reports.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Report Periodicity Scale</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;millisecond</td>
<td></td>
<td></td>
<td>INTEGER (1..60000)</td>
<td>Unit: ms, Range: 10..60000 ms, Step: 10 ms</td>
</tr>
<tr>
<td>&gt;&gt;Report Periodicity Value</td>
<td>M</td>
<td>(1..60)</td>
<td>INTEGER (1..60)</td>
<td>Unit: min, Range: 1..60 min, Step: 1 min</td>
</tr>
</tbody>
</table>

9.2.1.51A Requested Data Value

The Requested Data Value IE contains the relevant data concerning the ongoing information exchange. The Requested Data Value IE shall include at least one of the following IE:

Note 1: This information element is a simplified representation of the ASN.1. The choice is performed through the use of a ProtocolIE-Single-Container and a ProtocolExtensionContainer within the ASN.1.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGPS Corrections</td>
<td>O</td>
<td></td>
<td>9.2.1.24B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS Navigation Model &amp; Time</td>
<td>O</td>
<td></td>
<td>9.2.1.31B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recovery</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS Ionospheric Model</td>
<td>O</td>
<td></td>
<td>9.2.1.31C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS UTC Model</td>
<td>O</td>
<td></td>
<td>9.2.1.31D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS Almanac</td>
<td>O</td>
<td></td>
<td>9.2.1.31F</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS Real-Time Integrity</td>
<td>O</td>
<td></td>
<td>9.2.1.31E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS RX Pos</td>
<td>O</td>
<td></td>
<td>9.2.1.31G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GANSS Common Data</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Ionospheric Model</td>
<td></td>
<td></td>
<td>9.2.1.91</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS RX Pos</td>
<td></td>
<td></td>
<td>9.2.1.95</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Additional Ionospheric Model</td>
<td>O</td>
<td></td>
<td>9.2.1.91a</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Earth Orientation</td>
<td></td>
<td></td>
<td>9.2.1.107a</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Parameters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GANSS Generic Data</strong></td>
<td></td>
<td>0..&lt;max</td>
<td></td>
<td>GLOBAL</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NoGANSS&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS ID</td>
<td></td>
<td></td>
<td>9.2.1.104</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DGANSS Corrections</td>
<td></td>
<td></td>
<td>9.2.1.88</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Navigation Model And</td>
<td>O</td>
<td></td>
<td>9.2.1.105</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Recovery</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Time Model</td>
<td></td>
<td></td>
<td>9.2.1.96</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS UTC Model</td>
<td></td>
<td></td>
<td>9.2.1.97</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Almanac</td>
<td></td>
<td></td>
<td>9.2.1.89</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Real Time Integrity</td>
<td></td>
<td></td>
<td>9.2.1.94</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Data Bit Assistance</td>
<td></td>
<td></td>
<td>9.2.1.103</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Additional Time Models</td>
<td>O</td>
<td></td>
<td>9.2.1.96a</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Additional Navigation</td>
<td>O</td>
<td></td>
<td>9.2.1.105a</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Models And Time Recovery</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Additional UTC Models</td>
<td>O</td>
<td></td>
<td>9.2.1.97a</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Auxiliary Information</td>
<td>O</td>
<td></td>
<td>9.2.1.107c</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;SBAS ID</td>
<td></td>
<td></td>
<td>C-GANSS-ID</td>
<td>9.2.1.107b</td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS-ID</td>
<td>This IE shall be present if the GANSS ID IE indicates 'SBAS'.</td>
</tr>
</tbody>
</table>
### Range Bound

| maxNoGANSS | Maximum number of GANSS Systems |

#### 9.2.1.51B Requested Data Value Information

The Requested Data Value Information IE provides information on whether or not the Requested Data Value is available in the message and also the Requested Data Value itself if available. In case of "Periodic" and "On Modification" reporting, "Information Not Available" shall be used when at least one part of the requested information was not available at the moment of initiating the Information Reporting procedure.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Information Availability Indicator</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Information Available</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Requested Data Value</td>
<td>M</td>
<td></td>
<td>9.2.1.51A</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Information Not Available</td>
<td></td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.1.52 Resource Operational State

The Resource Operational State is used to indicate the current operational state of the associated resource following a Node B failure.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resource Operational State</td>
<td></td>
<td></td>
<td>ENUMERATED (Enabled, Disabled)</td>
<td>When a resource is marked as disabled, then its child resources are implicitly disabled. Cell Resource hierarchy can be referred to [6].</td>
</tr>
</tbody>
</table>

#### 9.2.1.52A Retention Priority

Void.

#### 9.2.1.52B RLC Mode

The RLC Mode IE indicates the RLC Mode used for a Priority Queue.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLC Mode</td>
<td></td>
<td></td>
<td>ENUMERATED (RLC-AM, RLC-UM,...)</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.1.53 RL ID

The RL ID is the unique identifier for one RL associated with a UE.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL ID</td>
<td></td>
<td></td>
<td>INTEGER (0..31)</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.1.53a RNC-Id

This is the identifier of one RNC in UTRAN.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RNC-Id</td>
<td></td>
<td></td>
<td>INTEGER (0..4095)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.53b RTWP* Reporting Indicator

The RTWP* Reporting Indicator indicates if the RTWP* measurement value shall be included together with the reported RSEPS measurement value.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTWP* Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (RTWP* Reporting Required)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.53c RTWP* for Cell Portion Reporting Indicator

The RTWP* for Cell Portion Reporting Indicator indicates if the RTWP* for Cell Portion measurement value shall be included together with the reported RSEPS measurement value.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTWP* per Cell Portion Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (RTWP* for Cell Portion Reporting Required)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.53A SFN

System Frame Number of the cell, see ref. [17].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFN</td>
<td></td>
<td></td>
<td>INTEGER (0..4095)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.53B Segment Type

Segment type as defined in [18].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Segment Type</td>
<td></td>
<td></td>
<td>ENUMERATED (First segment, First segment short, Subsequent segment, Last segment, Last segment short, Complete SIB, Complete SIB short, ...)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.53C SFN-SFN Measurement Threshold Information

The SFN-SFN Measurement Threshold Information defines the related thresholds SFN-SFN Observed Time Difference measurements which shall trigger the Event On Modification.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFN-SFN Change Limit</td>
<td></td>
<td></td>
<td>INTEGER(1..256)</td>
<td>Change of SFN-SFN value compared to previously reported value, which shall trigger a new report. Unit: chip Step: 1/16 chip</td>
</tr>
<tr>
<td>Predicted SFN-SFN Deviation Limit</td>
<td></td>
<td></td>
<td>INTEGER(1..256)</td>
<td>Deviation of the predicted SFN-SFN from the latest measurement result, which shall trigger a new report. Unit: chip Step: 1/16 chip</td>
</tr>
</tbody>
</table>

### 9.2.1.53D SFN-SFN Measurement Time Stamp

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Mode</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;FDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SFN</td>
<td>M</td>
<td></td>
<td>9.2.1.53A</td>
<td>Indicates the SFN of the reference cell at which the measurement has been performed.</td>
</tr>
<tr>
<td>&gt;TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;SFN</td>
<td>M</td>
<td></td>
<td>9.2.1.53A</td>
<td>Indicates the SFN of the reference cell at which the measurement has been performed.</td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>M</td>
<td></td>
<td>9.2.3.23</td>
<td>Indicates the Time Slot of the reference cell at which this measurement has been performed.</td>
</tr>
</tbody>
</table>

### 9.2.1.53E SFN-SFN Measurement Value Information

The *SFN-SFN Measurement Value Information* IE indicates the measurement result related to SFN-SFN Observed Time Difference measurements.
### Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;UC-Id</td>
<td>M</td>
<td>1..&lt;maxnoMeasNCell&gt;</td>
<td>9.2.1.65B</td>
<td></td>
</tr>
<tr>
<td>&gt;SFN-SFN Value</td>
<td>M</td>
<td>9.2.1.53F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;SFN-SFN Quality</td>
<td>O</td>
<td>INTEGER (0..255)</td>
<td></td>
<td>Indicates the standard deviation (std) of the SFN-SFN observed time difference measurements in 1/16 chip. SFN-SFN Quality = \sqrt{E[(x-\mu)^2]} = std of reported SFN-SFN Value, where x is the reported SFN-SFN Value and \mu = E[x] is the expectation value of x.</td>
</tr>
<tr>
<td>&gt;SFN-SFN Drift Rate</td>
<td>M</td>
<td>INTEGER (-100..+100)</td>
<td></td>
<td>Indicates the SFN-SFN drift rate in 1/256 chip per second. A positive value indicates that the Reference cell clock is running at a greater frequency than the measured neighbouring cell.</td>
</tr>
<tr>
<td>&gt;SFN-SFN Drift Rate Quality</td>
<td>O</td>
<td>INTEGER (0..100)</td>
<td></td>
<td>Indicates the standard deviation (std) of the SFN-SFN drift rate measurements in 1/256 chip per second. SFN-SFN Drift Rate Quality = \sqrt{E[(x-\mu)^2]} = std of reported SFN-SFN Drift Rate, where x is the reported SFN-SFN Drift Rate and \mu = E[x] is the expectation value of x.</td>
</tr>
<tr>
<td>&gt;SFN-SFN Measurement Time Stamp</td>
<td>M</td>
<td>9.2.1.53D</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;UC-Id</td>
<td>M</td>
<td>0..&lt;maxnoMeasNCell-1&gt;</td>
<td>9.2.1.65B</td>
<td></td>
</tr>
</tbody>
</table>

### Range Bound

<table>
<thead>
<tr>
<th>maxnoMeasNCell</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Maximum number of neighbouring cells that can be measured on</td>
</tr>
</tbody>
</table>

### 9.2.1.53F SFN-SFN Value

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Mode</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;FDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SFN-SFN</td>
<td>M</td>
<td>INTEGER (0..614399)</td>
<td></td>
<td>According to mapping in [22].</td>
</tr>
<tr>
<td>&gt;&gt;TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SFN-SFN</td>
<td>M</td>
<td>INTEGER (0..40961)</td>
<td></td>
<td>1.28 Mcps and 3.84 Mcps only</td>
</tr>
<tr>
<td>&gt;&gt;&gt;SFN-SFN</td>
<td>M</td>
<td>INTEGER (0..81923)</td>
<td></td>
<td>According to mapping in [23].</td>
</tr>
<tr>
<td>&gt;&gt;TDD 7.68 Mcps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SFN-SFN</td>
<td>M</td>
<td>INTEGER (0..81923)</td>
<td></td>
<td>According to mapping in [23].</td>
</tr>
</tbody>
</table>
9.2.1.53G  RL Specific DCH Information

The RL Specific DCH Information IE provides RL specific DCH Information for DCHs. In the case of a set of co-ordinated DCHs requiring a new transport bearer on Iub, the Transport Layer Address IE and the Binding ID IE in the RL Specific DCH Information IE shall be included only for one of the DCHs in the set of co-ordinated DCHs.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL Specific DCH Information</td>
<td>T..&lt;maxno ofDCHs&gt;</td>
<td>9.2.1.20</td>
<td></td>
<td></td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>&gt;DCH ID</td>
<td>M</td>
<td>9.2.1.20</td>
<td></td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td></td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td></td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Transport Bearer Not Requested Indicator</td>
<td>O</td>
<td>9.2.2.4G</td>
<td></td>
<td>FDD Only</td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

Range Bound | Explanation
---|-----------------------------------
maxno ofDCHs | Maximum number of DCHs for one UE

9.2.1.53H  Scheduling Priority Indicator

Indicates the relative priority of the HS-DSCH [FDD - or E-DCH data frame]. Used by the Node B when scheduling HS-DSCH[FDD - or E-DCH].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheduling Priority Indicator</td>
<td></td>
<td></td>
<td>INTEGER (0..15)</td>
<td>Relative priority of the HS-DSCH [FDD - or E-DCH data frame]: &quot;0&quot; = Lowest Priority</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&quot;15&quot; = Highest Priority</td>
</tr>
</tbody>
</table>

9.2.1.53I  SID

The SID IE provides the identity of the Size Index.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SID</td>
<td></td>
<td></td>
<td>INTEGER (0..7)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.54  SIB Deletion Indicator

Void.

9.2.1.55  SIB Originator

Indicates if the Node B shall fill in the SIB information or not.
IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description
--- | --- | --- | --- | ---
SIB Originator | | | ENUMERATED (Node B, CRNC, …) | |

### 9.2.1.55A Signalling Bearer Request Indicator

The *Signalling Bearer Request Indicator* IE indicates if a new signalling bearer needs to be established for the control of Node B Communication Context.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signalling Bearer Request Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (Bearer Requested)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.56 Shutdown Timer

The shutdown timer shall indicate the length of time available to the CRNC to perform the block of a resource when a Normal priority block is requested.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shutdown Timer</td>
<td></td>
<td></td>
<td>INTEGER (1..3600) Unit: second</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.56a T1

The *T1* IE is used as described in ref [32] subclause 11.6.2.3.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td></td>
<td></td>
<td>ENUMERATED (10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 120, 140, 160, 200, 300, 400, …) Unit: ms Node B may use this value to stop the re-transmission of the corresponding MAC-hs PDU.</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.56A T_RLFAILURE

The Radio Link Failure procedure shall be triggered after a period of time *T_RLFAILURE* has elapsed with a persisting out-of-sync indication (see also ref. [10] and [21]).

<table>
<thead>
<tr>
<th>Information Element/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T_RLFAILURE</td>
<td></td>
<td></td>
<td>INTEGER (0..255) Unit: second Range: 0 .. 25.5 s Step: 0.1 s</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.56B Start Of Audit Sequence Indicator

Indicates if the AUDIT REQUEST message initiates a new audit sequence or not.
### 9.2.1.56C TFCI2 Bearer Request Indicator

Void.

### 9.2.1.57 TFCI Presence

The TFCI Presence parameter indicates whether the TFCI shall be included. [TDD - If it is present in the timeslot, it will be mapped to the channelisation code defined by [19].]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TFCI presence</td>
<td></td>
<td></td>
<td>ENUMERATED (Present, Not Present)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.58 TFCS (Transport Format Combination Set)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.
### IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description
--- | --- | --- | --- | ---
**CHOICE TFCS Values** | M | | | This choice is always made.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhysChan</td>
<td>The IE shall be present if the TFCS concerns a UL DPCH or PRACH channel.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofTFCs</td>
<td>The maximum number of Transport Format Combinations</td>
</tr>
</tbody>
</table>

### 9.2.1.58A TNL QoS

This IE indicates the TNL QoS characteristics of the transport bearer for the uplink data traffic.

When the DS Field IE is used, the value of this IE is configurable by the operator.

When the Generic Traffic Category IE is used, generic traffic categories are implementation-specific (e.g. they may be determined by the sender from the application parameters). The value assigned to each of these categories and sent in the Generic Traffic Category IE is configurable by the operator, as well as the mapping of this value to DS field [35] at the Node B side.
9.2.1.59 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

[TDD - The Transport Format Set for each transport channel within the same CCTrCH shall have the same value for the 2nd Interleaving Mode IE.]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Transport Format Information</td>
<td>1..&lt;maxTF\n\ncount&gt;</td>
<td></td>
<td></td>
<td>The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.</td>
</tr>
<tr>
<td>Number of Transport Blocks</td>
<td>M</td>
<td></td>
<td>INTEGER (0..512)</td>
<td></td>
</tr>
<tr>
<td>Transport Block Size</td>
<td>C-Blocks</td>
<td></td>
<td>INTEGER (0..5000) Unit: Bits</td>
<td></td>
</tr>
<tr>
<td>TRANSPORT BLOCK</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Transmission Time Interval Information</td>
<td>C-TTIdynamic \n\ncount&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Transmission Time Interval</td>
<td>M</td>
<td></td>
<td>ENUMERATED (10, 20, 40, 80,...) Unit: ms</td>
<td></td>
</tr>
<tr>
<td>Semi-Static Transport Format Information</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmission Time Interval</td>
<td>M</td>
<td></td>
<td>ENUMERATED (10, 20, 40, 80, dynamic,...,5) Unit: ms; Value &quot;dynamic&quot; for TDD only; Value &quot;5&quot; for LCR TDD only; For FDD DCH, the value &quot;80&quot; is applicable only when DL DPCH Slot Format IE indicates a slot format with SF=512.</td>
<td></td>
</tr>
<tr>
<td>Type Of Channel Coding</td>
<td>M</td>
<td></td>
<td>ENUMERATED (No codingTDD, Convolutional, Turbo, ...)</td>
<td>[FDD - The value &quot;No codingTDD&quot; shall be treated as logical error if received]</td>
</tr>
<tr>
<td>Coding Rate</td>
<td>C-Coding</td>
<td></td>
<td>ENUMERATED (1/2, 1/3,...)</td>
<td></td>
</tr>
<tr>
<td>Rate Matching Attribute</td>
<td>M</td>
<td></td>
<td>INTEGER (1..maxRM)</td>
<td></td>
</tr>
<tr>
<td>CRC Size</td>
<td>M</td>
<td></td>
<td>ENUMERATED (0, 8, 12, 16, 24,...)</td>
<td></td>
</tr>
<tr>
<td>CHOICE Mode</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;2&quot; Interleaving Mode</td>
<td>M</td>
<td></td>
<td>ENUMERATED (Frame related, Timeslot related, ...)</td>
<td></td>
</tr>
</tbody>
</table>
### Condition | Explanation
--- | ---
Blocks | The IE shall be present if the Number Of Transport Blocks IE is set to a value greater than 0.
Coding | The IE shall be present if the Type Of Channel Coding IE is set to "Convolutional" or "Turbo".
TTIdynamic | The IE shall be present if the Transmission Time Interval IE in the Semi-Static Transport Format Information IE is set to "dynamic".

### Range Bound | Explanation
--- | ---
maxTFcount | Maximum number of different Transport Formats that can be included in the Transport Format Set for one transport channel
maxRM | Maximum number that could be set as rate matching attribute for a transport channel
maxTTIcount | The amount of different TTIs that are possible for that Transport Format

### 9.2.1.60 ToAWE

TOAWE is the window endpoint. DL data frames are expected to be received before this window endpoint. TOAWE is defined with a positive value relative Latest Time of Arrival (LTOA). A data frame arriving after TOAWE gives a Timing Adjustment Control frame response.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ToAWE</td>
<td></td>
<td>INTEGER (0..2559)</td>
<td>Unit: ms</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.61 ToAWS

TOAWS is the window startpoint. DL data frames are expected to be received after this window startpoint. TOAWS is defined with a positive value relative Time of Arrival Window Endpoint (TOAWE). A data frame arriving before TOAWS gives a Timing Adjustment Control frame response.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ToAWS</td>
<td></td>
<td>INTEGER (0..1279)</td>
<td>Unit: ms</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.62 Transaction ID

The transaction ID is used to associate all the messages belonging to the same procedure. Messages belonging to the same procedure shall use the same transaction ID.

The transaction ID is determined by the initiating peer of a procedure. For common procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and signalled over the same Node B Control Port. For dedicated procedures the transaction ID shall uniquely identify a procedure within all ongoing parallel procedures initiated by one protocol peer, using the same procedure code and initiated towards the same Node B/CRNC context.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Transaction ID</td>
<td></td>
<td></td>
<td></td>
<td>The Transaction ID shall be interpreted for its integer value, not for the type of encoding (&quot;short&quot; or &quot;long&quot;).</td>
</tr>
<tr>
<td>&gt; Short</td>
<td></td>
<td></td>
<td>INTEGER (0..127)</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Transaction ID Value</td>
<td>M</td>
<td>INTEGER (0..127)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Long</td>
<td></td>
<td></td>
<td>INTEGER (0..32767)</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Transaction ID Value</td>
<td>M</td>
<td>INTEGER (0..32767)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9.2.1.62A  **Transport Bearer Request Indicator**

Indicates whether a new transport bearer needs to be established for carrying the concerned transport channel.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Bearer Request Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (Bearer Requested, Bearer Not Requested, ...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.63  **Transport Layer Address**

In case of transport bearer establishment with ALCAP [2][31], this IE contains the address to be used for Transport Network Control Plane signalling to establish the transport bearer according to [2][31].

In order to allow transport bearer establishment without ALCAP, this IE contains the address of the transport bearer to be used for the user plane transport.

For details on the Transport Address used see ref. [2][31].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Layer Address</td>
<td></td>
<td></td>
<td>BIT STRING (1..160, ...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.64  **TSTD Indicator**

Indicates if TSTD shall be active or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSTD Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (active, inactive)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.64A  **$T_{UTRAN-GPS}$ Measurement Value Information**

The $T_{UTRAN-GPS}$ Measurement Value Information IE indicates the measurement results related to the UTRAN GPS Timing of Cell Frames for UE Positioning measurements.
### IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description
---|---|---|---|---
`TUTRAN-GPS` | f |  |  | Indicates the UTRAN GPS Timing of Cell Frames for UE Positioning. According to mapping in [22]. Significant values range from 0 to 37158911999999.

>MS | M | INTEGER (0..16383) | Most Significant Part

>LS | M | INTEGER (0..4294967295) | Least Significant Part

`TUTRAN-GPS Quality` | O | INTEGER (0..255) | Indicates the standard deviation (std) of the `TUTRAN-GPS` measurements in 1/16 chip. `TUTRAN-GPS Quality = \sqrt{E[(x-\mu)^2]} = std of reported TUTRAN-GPS Value, where x is the reported TUTRAN-GPS Value and \mu = E[x]` is the expectation value of x.

`TUTRAN-GPS Drift Rate` | M | INTEGER (-50..+50) | Indicates the `TUTRAN-GPS` drift rate in 1/256 chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GPS clock.

`TUTRAN-GPS Drift Rate Quality` | O | INTEGER (0..50) | Indicates the standard deviation (std) of the `TUTRAN-GPS` drift rate measurements in 1/256 chip per second. `TUTRAN-GPS Drift Rate Quality = \sqrt{E[(x-\mu)^2]} = std of reported TUTRAN-GPS Drift Rate, where x is the reported TUTRAN-GPS Drift Rate and \mu = E[x]` is the expectation value of x.

### 9.2.1.64B TUTRAN-GPS Measurement Threshold Information

The `TUTRAN-GPS` Measurement Threshold Information defines the related thresholds for UTRAN GPS Timing of Cell Frames for UE Positioning measurements shall trigger the event On Modification.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
---|---|---|---|---
`TUTRAN-GPS Change Limit` | O |  | INTEGER (1..256) | Change of `TUTRAN-GPS` value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.

`Predicted TUTRAN-GPS Deviation Limit` | O |  | INTEGER (1..256) | Deviation of the predicated `TUTRAN-GPS` from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.

### 9.2.1.64C TUTRAN-GPS Accuracy Class

The `TUTRAN-GPS Accuracy Class` IE indicates the accuracy class of the UTRAN GPS Timing of Cell Frames for UE Positioning measurement.
### 9.2.1.65 UARFCN

Designates the carrier frequency.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UARFCN</td>
<td></td>
<td></td>
<td>INTEGER (0..16383,...)</td>
<td>As defined in subclause 5.4.3 in [14] and [15]</td>
</tr>
</tbody>
</table>

### 9.2.1.65A UL Capacity Credit

The capacity credit indicates to the CRNC the Uplink capacity of a Local Cell or a Local Cell Group.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Capacity Credit</td>
<td></td>
<td></td>
<td>INTEGER (0..65535)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.65B UTRAN Cell Identifier (UC-Id)

The UC-Id (UTRAN Cell identifier) is the identifier of a cell in one UTRAN.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>RNC-Id</td>
<td>M</td>
<td></td>
<td>9.2.1.53a</td>
<td>If the Extended RNC-ID IE is included in the UC-Id IE, the RNC-Id IE shall be ignored.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>C-Id</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Extended RNC-ID</td>
<td>O</td>
<td></td>
<td>9.2.1.65C</td>
<td>The Extended RNC-ID IE shall be used if the RNC identity has a value larger than 4095.</td>
<td>YES</td>
<td>reject</td>
</tr>
</tbody>
</table>

### 9.2.1.65C Extended RNC-ID

This is the identifier of one RNC in UTRAN.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended RNC-ID</td>
<td></td>
<td></td>
<td>INTEGER(4096..65535)</td>
<td>Note: Application of the Extended RNC-ID IE to very large networks is FFS.</td>
</tr>
</tbody>
</table>

### 9.2.1.66 UL FP Mode

This parameter defines if normal or silent mode of the Frame Protocol shall be used for the UL.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL FP Mode</td>
<td></td>
<td></td>
<td>ENUMERATED (Normal,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Silent, ...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.67  UL interference level

Void.

9.2.1.67A  UL SIR

The UL SIR indicates a received UL SIR.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL SIR</td>
<td></td>
<td></td>
<td>INTEGER (-82..173)</td>
<td>Value = UL SIR/10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Unit: dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Range: -8.2 .. +17.3 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Step: 0.1 dB</td>
</tr>
</tbody>
</table>

9.2.1.68  Unidirectional DCH Indicator

The Unidirectional DCH Indicator IE indicates that the DCH is unidirectional.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unidirectional DCH Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (Downlink DCH only, Uplink DCH only)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.69  E-DCH MAC-d Flow Multiplexing List

The E-DCH MAC-d Flow Multiplexing List indicates which E-DCH MAC-d flows are allowed to be multiplexed within a MAC-e/MAC-i PDU with the MAC-d flow it is associated to. If the E-DCH MAC-d Flow Multiplexing List is signalled for an E-DCH MAC-d flow it indicates that E-DCH MAC-d PDUs of this E-DCH MAC-d flow are the first E-DCH MAC-d PDU in the MAC-e/MAC-i PDU. If an E-DCH MAC-d Flow Multiplexing List was already received within a previous Radio Link related procedure and no E-DCH MAC-d Flow Multiplexing List is signalled for an E-DCH MAC-d flow, the Node B shall continue to use the previously received one. If no E-DCH MAC-d Flow Multiplexing List was ever received for an E-DCH MAC-d flow no restrictions shall be assumed for the related E-DCH MAC-d flow for multiplexing E-DCH MAC-d flows.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d Flow Multiplexing List</td>
<td></td>
<td></td>
<td>BIT STRING (8)</td>
<td>The first Bit corresponds to E-DCH MAC-d flow 0, the second bit corresponds to E-DCH MAC-d flow 1, etc. For 1.28Mcps TDD, if the IE is included in the IE Common E-DCH MAC-d Flow Specific Information LCR, the first Bit corresponds to E-DCH MAC-d with the lowest E-DCH MAC-d Flow ID within the same frequency, the second bit corresponds to E-DCH MAC-d flow with the second lowest E-DCH MAC-d Flow ID within the same frequency, etc.</td>
</tr>
</tbody>
</table>

### 9.2.1.70 E-DCH Capability

This parameter defines the E-DCH capability for a Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (E-DCH Capable, E-DCH non Capable)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.71 E-DCH Logical Channel Information

The *E-DCH Logical Channel Information* IE is used for the establishment of E-DCH Logical Channels.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Logical Channel Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Logical Channel ID</td>
<td>M</td>
<td>1..&lt;maxnooflogicalchannels&gt;</td>
<td>9.2.1.80</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Scheduling Priority Indicator</td>
<td>M</td>
<td></td>
<td>9.2.1.53H</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Scheduling Information</td>
<td>M</td>
<td></td>
<td>9.2.1.84</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MAC-es Guaranteed Bit Rate</td>
<td>O</td>
<td></td>
<td>9.2.1.82</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH DDI Value</td>
<td>M</td>
<td></td>
<td>9.2.1.76</td>
<td>If more than 1 MAC-d PDU size is configured for this Logical Channel, the different sizes will use subsequent DDI values starting from this DDI value. Value '0x3F' is reserved. Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MAC-d PDU Size List</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;MAC-d PDU Size</td>
<td>M</td>
<td>1..&lt;maxnoofMACdDUSizes&gt;</td>
<td>9.2.1.38A</td>
<td>Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum MAC-d PDU Size Extended</td>
<td>O</td>
<td></td>
<td>9.2.1.38C</td>
<td>MAC PDU Size Extended 9.2.1.38C</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;MAC-es Maximum Bit Rate LCR</td>
<td>O</td>
<td></td>
<td>9.2.3.90</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;UE Aggregate Maximum Bit Rate Enforcement Indicator</td>
<td>O</td>
<td></td>
<td>NULL</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

**Range Bound**

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maxnooflogicalchannels</td>
<td>Maximum number of logical channels</td>
</tr>
<tr>
<td>maxnoofMACdDUSize</td>
<td>Maximum number of MAC-d PDU size per Logical Channels</td>
</tr>
</tbody>
</table>

9.2.1.72 E-DCH Logical Channel To Modify

The *E-DCH Logical Channel To Modify* IE is used for the reconfiguration of E-DCH Logical Channels.
### IE/Group Name and Reference

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Logical Channel Information</td>
<td>1..&lt;maxno oflogicalchannels&gt;</td>
<td>9.2.1.80</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Logical Channel ID</td>
<td>M</td>
<td>9.2.1.80</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Scheduling Priority Indicator</td>
<td>O</td>
<td>9.2.1.53H</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Scheduling Information</td>
<td>O</td>
<td>9.2.1.84</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MAC-es Guaranteed Bit Rate</td>
<td>O</td>
<td>9.2.1.82</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH DDI Value</td>
<td>O</td>
<td>9.2.1.76</td>
<td>If more than 1 MAC-d PDU size is configured for this Logical Channel, the different sizes will use subsequent DDI values starting from this DDI value. Value '0x3F' is reserved. Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MAC-d PDU Size List</td>
<td>0..&lt;maxnoofMACdPDUSize</td>
<td>9.2.1.38A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;MAC-d PDU Size</td>
<td>M</td>
<td>9.2.1.38A</td>
<td>Shall be ignored if Maximum MAC-d PDU Size Extended IE is present.</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum MAC-d PDU Size Extended</td>
<td>O</td>
<td>MAC PDU Size Extended 9.2.1.38C</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MAC-es Maximum Bit Rate LCR</td>
<td>O</td>
<td>9.2.3.90</td>
<td>1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

#### Range Bound

<table>
<thead>
<tr>
<th>maxnooflogicalchannels</th>
<th>Maximum number of logical channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofMACdPDUSize</td>
<td>Maximum number of MAC-d PDU size per Logical Channels</td>
</tr>
</tbody>
</table>

### 9.2.1.73 E-DCH MAC-d Flows To Delete

The E-DCH MAC-d Flows To Delete IE is used for the removal of E-DCH MAC-d flows.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d Flows To Delete</td>
<td>1..&lt;maxno ofEDCHMACdFlows&gt;</td>
<td>9.2.1.74</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

#### Range Bound

<table>
<thead>
<tr>
<th>maxnoofEDCHMACdFlows</th>
<th>Maximum number of E-DCH MAC-d flows</th>
</tr>
</thead>
</table>
9.2.1.74  E-DCH MAC-d Flow ID

The E-DCH MAC-d Flow ID is the unique identifier for one MAC-d flow on E-DCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d Flow ID</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td>(0..maxnoofEDCHMACdFlows - 1)</td>
</tr>
</tbody>
</table>

**Range Bound**

| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows |

9.2.1.74A  E-DCH MAC-d PDU Size Capability

This parameter defines the capability for a Local Cell to support different MAC-d PDU Size formats. If this IE is set to "Flexible Size Capable" the Local Cell is "Fixed Size Capable" and "Flexible Size Capable". If this IE has not been configured or has been set to "Fixed Size Capable" the Local Cell is only "Fixed Size Capable".

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d PDU Size Capability</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Fixed Size Capable, Flexible Size Capable)</td>
</tr>
</tbody>
</table>

9.2.1.74B  E-DCH MAC-d PDU Size Format

The **E-DCH MAC-d PDU Size Format** IE provides information about the type of MAC-d PDU Size Format that shall be used for the E-DCH in the new configuration. "Fixed MAC-d PDU Size" uses MAC-d PDU sizes defined in **MAC-d PDU Size List** IE of the **E-DCH Logical Channel Information** IE. "Flexible MAC-d PDU Size" uses a flexible MAC-d PDU size with a maximum PDU size as defined by **Maximum MAC-d PDU Size Extended** IE of **E-DCH Logical Channel Information** IE. The actual MAC-d PDU size is determined as specified in [24] and [32].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d PDU Size Format</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Fixed MAC-d PDU Size, Flexible MAC-d PDU Size)</td>
</tr>
</tbody>
</table>

9.2.1.75  E-RNTI

The E-RNTI is needed for the UE (or UE group) specific CRC in E-AGCH, see ref. [38].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-RNTI</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td>(0..65535)</td>
</tr>
</tbody>
</table>

9.2.1.76  E-DCH DDI Value

The E-DCH DDI Value is the Data Description Indicator value identifying a unique combination of E-DCH MAC-d Flow ID and MAC-d PDU Size.
### 9.2.1.77 E-DCH Provided Bit Rate Value

The **E-DCH Provided Bit Rate Value** IE indicates the E-DCH Provided Bit Rate as defined in [32].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Provided Bit Rate Value</td>
<td></td>
<td></td>
<td>INTEGER (0..62)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.78 E-DCH Provided Bit Rate Value Information

The **E-DCH Provided Bit Rate Value Information** IE reports the **E-DCH Provided Bit Rate Value** IE for each priority class.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Provided Bit Rate Value Information</td>
<td></td>
<td>1..&lt;maxNo ofPriorityClasses&gt;</td>
<td>INTEGER (0..2^24-1, ..., 2^24..256,000,000)</td>
<td>Expressed in bit/s.</td>
</tr>
</tbody>
</table>

#### Range Bound | Explanation
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>maxNoofPriorityClasses</td>
<td>Maximum number of E-DCH Scheduling Priorities</td>
</tr>
</tbody>
</table>

### 9.2.1.79 E-DCH Processing Overload Level

The **E-DCH Processing Overload Level** IE defines the threshold that determines when the Node B shall indicate processing issue problems to the RNC.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE type and reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Processing Overload Level</td>
<td></td>
<td></td>
<td>INTEGER (0..10,…)</td>
<td>Number of consecutive TTIs. The value “0” is a special value that means infinity, i.e. when this value is used, the Node B shall never indicate processing issue to the RNC.</td>
</tr>
</tbody>
</table>

### 9.2.1.80 Logical channel ID

The **Logical Channel ID** IE is used to identify a E-DCH logical channel in Sheduling Information that is sent over Uu.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logical Channel ID</td>
<td></td>
<td></td>
<td>INTEGER (1..15)</td>
<td></td>
</tr>
</tbody>
</table>
9.2.1.81 Maximum Number Of Retransmissions For E-DCH

The Maximum Number Of Retransmissions For E-DCH IE specifies the upper boundary for retransmissions for a single MAC-d flow.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Number Of Retransmissions For E-DCH</td>
<td></td>
<td></td>
<td>INTEGER (0..15)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.82 MAC-es Guaranteed Bit Rate

The MAC-es Guaranteed Bit Rate IE indicates the guaranteed number of bits per second to be delivered over the air interface under normal operating conditions (provided there is data to deliver) for which the Node B shall provide sufficient UL resources. If the MAC-es Guaranteed Bit Rate IE is received with the value set to 0 during RL set up or modification, no guarantee is applied.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-es Guaranteed Bit Rate</td>
<td></td>
<td></td>
<td>INTEGER (0..2^24-1, ..., 2^24..256,000,000)</td>
<td>Unit: bit/s</td>
</tr>
</tbody>
</table>

9.2.1.83 MAC-e Reset Indicator

Indicates the MAC-e (or MAC-i) Reset is performed in UE.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-e Reset Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (MAC-e Reset)</td>
<td>Means MAC-i Reset in case Maximum MAC-d PDU Size Extended is configured for an E-DCH Logical Channel</td>
</tr>
</tbody>
</table>

9.2.1.84 Scheduling Information

The Scheduling Information IE indicates whether the scheduling information is included for the E-DCH logical channel or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheduling Information</td>
<td></td>
<td></td>
<td>ENUMERATED (Included, Not Included)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.85 E-DCH Power Offset for Scheduling Info

The E-DCH Power Offset for Scheduling Info is used to calculate the [FDD - E-DPDCH][TDD - E-PUCH] power for transmission of scheduling information without any MAC-d PDUs.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Power Offset for Scheduling Info</td>
<td></td>
<td></td>
<td>INTEGER (0..6)</td>
<td>Unit: dB Step: 1 dB</td>
</tr>
</tbody>
</table>

9.2.1.86 MBMS Capability

This parameter defines the MBMS capability for a Local Cell.
### 9.2.1.87 Modulation

Indicates the modulation to be used for a S-CCPCH CCTrCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modulation</td>
<td></td>
<td></td>
<td>ENUMERATED (QPSK, 16QAM, …)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.88 DGANSS Corrections

This IE contains DGANSS corrections.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGANSS Reference Time</td>
<td>M</td>
<td></td>
<td>INTEGER(0..3570 by step of 30)</td>
<td>Seconds, Time in GNSS system time (modulo 3600 s) when the DGANSS corrections were calculated</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>DGANSS Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;GANS Signal ID</td>
<td>O</td>
<td></td>
<td>ENUMERATED</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Status/Health</td>
<td>M</td>
<td></td>
<td>ENUMERATED(UDRE scale 1.0, UDRE scale 0.75, UDRE scale 0.5, UDRE scale 0.3, UDRE scale 0.2, UDRE scale 0.1, no data, invalid data)</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;DGANSS Signal Information</td>
<td>C: Status/Health</td>
<td>1 to &lt;maxGANSSsat&gt;</td>
<td>INTEGER(0…63)</td>
<td>If the Cipher information is included these fields are ciphered.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Sat ID</td>
<td>M</td>
<td></td>
<td>INTEGER(0…63)</td>
<td>Defined in [18].</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;IOD</td>
<td>M</td>
<td></td>
<td>BIT STRING(10)</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;UDRE</td>
<td>M</td>
<td></td>
<td>ENUMERATED(UDRE ≤ 1.0 m, 1.0m &lt; UDRE ≤ 4.0m, 4.0m &lt; UDRE ≤ 8.0m, 8.0m &lt; UDRE)</td>
<td>The value in this field shall be multiplied by the UDRE Scale Factor in the IE Status/Health to determine the final UDRE estimate for the particular satellite.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;PRC</td>
<td>M</td>
<td></td>
<td>INTEGER(-2047..2047)</td>
<td>Scaling factor 0.32 meters</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;RRC</td>
<td>M</td>
<td></td>
<td>INTEGER(-127..127)</td>
<td>Scaling factor 0.032 meters/sec</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;DGANSS Validity Period</td>
<td>O</td>
<td></td>
<td>9.2.1.125</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
### Condition | Explanation
--- | ---
Status/Health | This IE shall be present if the Status/Health IE value is not equal to “no data” or “invalid data”.

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
</table>
maxGANSSSat | Maximum number of satellites for which data is included in the IE |
maxSgnType | Maximum number of signals for which data is included in the IE |
### 9.2.1.89 GANSS Almanac

This IE contains a reduced-precision subset of the ephemeris and clock correction parameters.

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week Number</td>
<td>M</td>
<td></td>
<td>INTEGER(0..255)</td>
<td>Almanac reference week, number of weeks since the beginning of GANSS specific system time (mod 256)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHOICE Almanac Model</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Keplerian Parameters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Toa</td>
<td>M</td>
<td></td>
<td>INTEGER(0..255)</td>
<td>Scaling factor $2^{-12}$ s Reference time of almanac within week in GANSS TOD time base</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;IODa</td>
<td>M</td>
<td></td>
<td>INTEGER(0..3)</td>
<td>Issue-Of-Data, common to all satellites</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Satellite Information KP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Sat ID</td>
<td>M</td>
<td></td>
<td>INTEGER(0..63)</td>
<td>Defined in [18].</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;e</td>
<td>M</td>
<td></td>
<td>BIT STRING(11)</td>
<td>Eccentricity, dimensionless [39]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;δi</td>
<td>M</td>
<td></td>
<td>BIT STRING(11)</td>
<td>semi-circles [39]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;OMEGADOT</td>
<td>M</td>
<td></td>
<td>BIT STRING(11)</td>
<td>Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles/sec) [39]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;SV Health KP</td>
<td>M</td>
<td></td>
<td>BIT STRING(4)</td>
<td>dimensionless</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;delta A&lt;sup&gt;1/2&lt;/sup&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(17)</td>
<td>Semi-Major Axis delta (meters)&lt;sup&gt;1/2&lt;/sup&gt; [39]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;OMEGA0</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles) [39]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;M&lt;sub&gt;0&lt;/sub&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Mean Anomaly at Reference Time (semi-circles) [39]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;ω</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Argument of Perigee (semi-circles) [39]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;af&lt;sub&gt;0&lt;/sub&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(14)</td>
<td>Seconds [39]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;af&lt;sub&gt;1&lt;/sub&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(11)</td>
<td>sec/sec [39]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;NAV Keplerian Parameters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Keplerian NAV Almanac</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;&gt;Toa</td>
<td>M</td>
<td></td>
<td>INTEGER(0..255)</td>
<td>Scaling factor $2^{-12}$ s Reference time of almanac within week in GANSS TOD time base</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Satellite information NAV-KP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Sat ID</td>
<td>M</td>
<td></td>
<td>INTEGER (0..63)</td>
<td>Defined in [18].</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;e</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Eccentricity, dimensionless [47]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;( \delta )l</td>
<td>M</td>
<td>BIT STRING (16)</td>
<td>Correction to inclination, semi-circles [47]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;OMEGADOT</td>
<td>M</td>
<td>BIT STRING (16)</td>
<td>Rate of right ascension, semi-circles/sec [47]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;SV Health</td>
<td>M</td>
<td>BIT STRING (8)</td>
<td>Satellite health [47]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;A(^{1/2})</td>
<td>M</td>
<td>BIT STRING (24)</td>
<td>Square root of the semi-major axis, meters(^{1/2}) [47]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;OMEGA(_0)</td>
<td>M</td>
<td>BIT STRING (24)</td>
<td>Longitude of ascending node of orbit plane at weekly epoch, semi-circles [47]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;( \omega )</td>
<td>M</td>
<td>BIT STRING (24)</td>
<td>Argument of perigee semi-circles [47]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;M(_0)</td>
<td>M</td>
<td>BIT STRING (24)</td>
<td>Mean anomaly at reference time semi-circles [47]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;af(_0)</td>
<td>M</td>
<td>BIT STRING (11)</td>
<td>Apparent satellite clock correction seconds [47]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;af(_1)</td>
<td>M</td>
<td>BIT STRING (11)</td>
<td>Apparent satellite clock correction sec/sec [47]</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**>Reduced Keplerian Parameters**

| >>Keplerian Reduced Almanac | M | YES | ignore |
| >>>>>Toa | M | INTEGER(0..255) | Scaling factor 2\(^{12}\) s Reference time of almanac within week in GANSS TOD time base | – |

**>Satellite information RED-KP**

| >>>>>Sat ID | M | INTEGER (0..63) | Defined in [18]. | – |
| >>>>>\( \delta \)A | M | BIT STRING(8) | meters [43,44,45,47] | – |
| >>>>>\( \Omega \)r | M | BIT STRING (7) | semi-circles [43,44,45,47] | – |
| >>>>>\( \Phi \)u | M | BIT STRING (7) | semi-circles [43,44,45,47] | – |

| >>>>>L1 Health | M | BIT STRING (1) | dimensionless [43,44,45,47] | – |
| >>>>>L2 Health | M | BIT STRING (1) | dimensionless [43,44,45,47] | – |
| >>>>>L5 Health | M | BIT STRING (1) | dimensionless [43,44,45,47] | – |

**>Midi Keplerian Parameters**

| >>Keplerian Midi Almanac | M | YES | ignore |
| >>>>>Toa | M | INTEGER(0..255) | Scaling factor 2\(^{12}\) s Reference time of almanac within week in GANSS TOD time base | – |

**>Satellite information MIDI-KP**

<p>| &gt;&gt;&gt;&gt;&gt;Sat ID | M | INTEGER (0..63) | Defined in [18]. | – |
| &gt;&gt;&gt;&gt;&gt;e | M | BIT STRING(11) | dimensionless [43,44,45,47] | – |
| &gt;&gt;&gt;&gt;&gt;( \delta )l | M | BIT STRING | semi-circles | – |</p>
<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Description</th>
<th>Format</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \dot{\Omega}_\text{dot} )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(11) [43,44,45,47]</td>
<td>semi-circles/sec</td>
</tr>
<tr>
<td>( \sqrt{\Omega} )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(11) [43,44,45,47]</td>
<td>meters</td>
</tr>
<tr>
<td>( \Omega_i )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(17) [43,44,45,47]</td>
<td>semi-circles</td>
</tr>
<tr>
<td>( \omega )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(16) [43,44,45,47]</td>
<td>semi-circles</td>
</tr>
<tr>
<td>( M_0 )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(16) [43,44,45,47]</td>
<td>semi-circles</td>
</tr>
<tr>
<td>( a_{10} )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(11) [43,44,45,47]</td>
<td>sec/arc sec</td>
</tr>
<tr>
<td>( a_{11} )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(16) [43,44,45,47]</td>
<td>sec/sec</td>
</tr>
<tr>
<td>L1 Health</td>
<td>M</td>
<td>BIT STRING</td>
<td>(1) Dimensionless [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>L2 Health</td>
<td>M</td>
<td>BIT STRING</td>
<td>(1) Dimensionless [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>L5 Health</td>
<td>M</td>
<td>BIT STRING</td>
<td>(1) Dimensionless [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>N( A )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(11) days [48]</td>
<td></td>
</tr>
<tr>
<td>n( A )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(5) Dimensionless [48]</td>
<td></td>
</tr>
<tr>
<td>H( n )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(5) Dimensionless [48]</td>
<td></td>
</tr>
<tr>
<td>( \lambda_n )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(21) semi-circles [48]</td>
<td></td>
</tr>
<tr>
<td>i( a_n )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(21) seconds [48]</td>
<td></td>
</tr>
<tr>
<td>( \Delta \iota_n )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(18) semi-circles [48]</td>
<td></td>
</tr>
<tr>
<td>( \Delta \tau_n )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(22) sec/orbit period [48]</td>
<td></td>
</tr>
<tr>
<td>( \Delta \tau_{\text{DOT}}_n )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(7) sec/orbit period(^2) [48]</td>
<td></td>
</tr>
<tr>
<td>( e_n )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(15) Dimensionless [48]</td>
<td></td>
</tr>
<tr>
<td>( \omega_n )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(16) semi-circles [48]</td>
<td></td>
</tr>
<tr>
<td>( t_n )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(10) seconds [48]</td>
<td></td>
</tr>
<tr>
<td>( C_n )</td>
<td>M</td>
<td>BIT STRING</td>
<td>(1) Dimensionless [48]</td>
<td></td>
</tr>
<tr>
<td>( M_n )</td>
<td>O</td>
<td>BIT STRING</td>
<td>(2) Dimensionless [48]</td>
<td></td>
</tr>
<tr>
<td>Data ID</td>
<td>M</td>
<td>BIT STRING</td>
<td>(2) Dimensionless [46]</td>
<td></td>
</tr>
<tr>
<td>SV ID</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..63) Defined in [18].</td>
<td></td>
</tr>
</tbody>
</table>
Health M BIT STRING (8) Dimensionless [46] –

X0 M BIT STRING (15) meters [46] –

Y0 M BIT STRING (15) meters [46] –

Z0 M BIT STRING (9) meters [46] –

X0 Rate-of-Change M BIT STRING (3) meters/sec [46] –

Y0 Rate-of-Change M BIT STRING (3) meters/sec [46] –

Z0 Rate-of-Change M BIT STRING (4) meters/sec [46] –

t0 M BIT STRING (11) seconds [46] –

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxGANSSSatAlmanac</td>
<td>Maximum number of satellites for which data is included in the IE</td>
</tr>
</tbody>
</table>

**9.2.1.90 GANSS Clock Model**

The IE contains fields needed to model the GANSS clock parameters.

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satellite Clock Model</td>
<td>1 to &lt;maxGANSSClockMod&gt;</td>
<td>Model -1</td>
<td>There may be more than one clock model included if defined in SIS ICD (e.g. two for Galileo)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model ID</th>
<th>O</th>
<th>BIT STRING (28)</th>
<th>Defined in [39]</th>
</tr>
</thead>
<tbody>
<tr>
<td>TGD</td>
<td>O</td>
<td>BIT STRING (10)</td>
<td>Defined in [39]</td>
</tr>
</tbody>
</table>

Range bound | Explanation |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>maxGANSSClockMod</td>
<td>Maximum number of satellite clock models for which data is included in the IE.</td>
</tr>
</tbody>
</table>
9.2.1.90a GANSS Additional Clock Models

The IE contains fields needed to model the GANSS clock parameters.

<table>
<thead>
<tr>
<th>CHOICE Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;NAV-Clock Model</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;tocc</td>
<td>M</td>
<td>BIT</td>
<td>STRING(16)</td>
<td>Time of clock</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(seconds) [47]</td>
</tr>
<tr>
<td>&gt;&gt;af2</td>
<td>M</td>
<td>BIT</td>
<td>STRING(8)</td>
<td>Clock correction</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>model polynomial</td>
<td>coefficient (sec/sec^2) [47]</td>
</tr>
<tr>
<td>&gt;&gt;af1</td>
<td>M</td>
<td>BIT</td>
<td>STRING(16)</td>
<td>Clock correction</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>model polynomial</td>
<td>coefficient (sec/sec) [47]</td>
</tr>
<tr>
<td>&gt;&gt;af0</td>
<td>M</td>
<td>BIT</td>
<td>STRING(22)</td>
<td>Clock correction</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>model polynomial</td>
<td>coefficient (seconds) [47]</td>
</tr>
<tr>
<td>&gt;&gt;TGD</td>
<td>M</td>
<td>BIT</td>
<td>STRING(8)</td>
<td>Group delay</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(seconds) [47]</td>
</tr>
<tr>
<td>&gt;CNAV/CNAV-2 Clock Model</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;tocc</td>
<td>M</td>
<td>BIT</td>
<td>STRING(11)</td>
<td>Clock data reference</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>time of week</td>
<td>(seconds) [43, 44, 45, 47]</td>
</tr>
<tr>
<td>&gt;&gt;top</td>
<td>M</td>
<td>BIT</td>
<td>STRING(11)</td>
<td>Clock data predict</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>time of week</td>
<td>(seconds) [43, 44, 45, 47]</td>
</tr>
<tr>
<td>&gt;&gt;URAacc Index</td>
<td>M</td>
<td>BIT</td>
<td>STRING(5)</td>
<td>SV clock accuracy</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>index (dimensionless)</td>
<td>[43, 44, 45, 47]</td>
</tr>
<tr>
<td>&gt;&gt;URAacc1 Index</td>
<td>M</td>
<td>BIT</td>
<td>STRING(3)</td>
<td>SV clock accuracy</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>change index</td>
<td>(dimensionless) [43, 44, 45, 47]</td>
</tr>
<tr>
<td>&gt;&gt;URAacc2 Index</td>
<td>M</td>
<td>BIT</td>
<td>STRING(3)</td>
<td>SV clock accuracy</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>change rate index</td>
<td>(dimensionless) [43, 44, 45, 47]</td>
</tr>
<tr>
<td>&gt;&gt;a2-n</td>
<td>M</td>
<td>BIT</td>
<td>STRING(10)</td>
<td>SV clock drift rate</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>correction coefficient</td>
<td>(sec/sec^2) [43, 44, 45, 47]</td>
</tr>
<tr>
<td>&gt;&gt;a1-n</td>
<td>M</td>
<td>BIT</td>
<td>STRING(20)</td>
<td>SV clock drift correction coefficient (sec/sec) [43, 44, 45, 47]</td>
</tr>
<tr>
<td>&gt;&gt;a0-n</td>
<td>M</td>
<td>BIT</td>
<td>STRING(26)</td>
<td>SV clock bias correction coefficient (seconds) [43, 44, 45, 47]</td>
</tr>
<tr>
<td>&gt;&gt;TGD</td>
<td>M</td>
<td>BIT</td>
<td>STRING(13)</td>
<td>Group delay correction</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(seconds) [43, 44, 45, 47]</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;ISC1CP</td>
<td>O</td>
<td>BIT</td>
<td>STRING(13)</td>
<td>Inter signal group</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>delay correction</td>
<td>(seconds) [45, 47]</td>
</tr>
<tr>
<td>&gt;&gt;ISC1CD</td>
<td>O</td>
<td>BIT</td>
<td>STRING(13)</td>
<td>Inter signal group</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>delay correction</td>
<td>(seconds) [45, 47]</td>
</tr>
<tr>
<td>&gt;&gt;ISC1CA</td>
<td>O</td>
<td>BIT</td>
<td>STRING(13)</td>
<td>Inter signal group</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>delay correction</td>
<td>(seconds) [43, 44, 47]</td>
</tr>
<tr>
<td>&gt;&gt;ISC2C</td>
<td>O</td>
<td>BIT</td>
<td>STRING(13)</td>
<td>Inter signal group</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>delay correction</td>
<td>(seconds) [43, 44, 47]</td>
</tr>
<tr>
<td>&gt;&gt;ISC5I5</td>
<td>O</td>
<td>BIT</td>
<td>STRING(13)</td>
<td>Inter signal group</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>delay correction</td>
<td>(seconds) [44, 47]</td>
</tr>
<tr>
<td>&gt;&gt;ISC9Q5</td>
<td>O</td>
<td>BIT</td>
<td>STRING</td>
<td>Inter signal group</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>delay correction</td>
<td>(seconds) [44, 47]</td>
</tr>
<tr>
<td>IE/Group name</td>
<td>Presence</td>
<td>Range</td>
<td>IE Type and Reference</td>
<td>Semantics description</td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
<td>-------</td>
<td>-----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>GLONASS Satellite Clock Model</td>
<td></td>
<td></td>
<td>correction (seconds) [44, 47]</td>
<td></td>
</tr>
<tr>
<td>(\tau_n(t_b))</td>
<td>M</td>
<td>BIT STRING (22)</td>
<td>Satellite clock offset (seconds) [48]</td>
<td></td>
</tr>
<tr>
<td>(\gamma_n(t_b))</td>
<td>M</td>
<td>BIT STRING (11)</td>
<td>Relative frequency offset from nominal value (dimensionless) [48]</td>
<td></td>
</tr>
<tr>
<td>(\Delta\tau_n)</td>
<td>O</td>
<td>BIT STRING (5)</td>
<td>Time difference between transmission in G2 and G1 (seconds) [48]</td>
<td></td>
</tr>
<tr>
<td>SBAS Satellite Clock Model</td>
<td></td>
<td></td>
<td>Model-5</td>
<td></td>
</tr>
<tr>
<td>(t_0)</td>
<td>M</td>
<td>BIT STRING (13)</td>
<td>(seconds) [46]</td>
<td></td>
</tr>
<tr>
<td>(a_{Gf0})</td>
<td>M</td>
<td>BIT STRING (12)</td>
<td>(seconds) [46]</td>
<td></td>
</tr>
<tr>
<td>(a_{Gf1})</td>
<td>M</td>
<td>BIT STRING (8)</td>
<td>(sec/sec) [46]</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.91 GANSS Ionospheric Model

The IE contains fields needed to model the propagation delays of the GANSS signals through the ionosphere.

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a_{i0})</td>
<td>M</td>
<td>BIT STRING(12)</td>
<td>This parameter is used as defined in [39]</td>
<td></td>
</tr>
<tr>
<td>(a_{i1})</td>
<td>M</td>
<td>BIT STRING(12)</td>
<td>This parameter is used as defined in [39]</td>
<td></td>
</tr>
<tr>
<td>(a_{i2})</td>
<td>M</td>
<td>BIT STRING(12)</td>
<td>This parameter is used as defined in [39]</td>
<td></td>
</tr>
<tr>
<td>GANSS Ionosphere Regional Storm Flags</td>
<td>0..1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Storm Flag 1</td>
<td>M</td>
<td>BOOLEAN</td>
<td>This parameter is used as defined in [39]</td>
<td></td>
</tr>
<tr>
<td>&gt;Storm Flag 2</td>
<td>M</td>
<td>BOOLEAN</td>
<td>This parameter is used as defined in [39]</td>
<td></td>
</tr>
<tr>
<td>&gt;Storm Flag 3</td>
<td>M</td>
<td>BOOLEAN</td>
<td>This parameter is used as defined in [39]</td>
<td></td>
</tr>
<tr>
<td>&gt;Storm Flag 4</td>
<td>M</td>
<td>BOOLEAN</td>
<td>This parameter is used as defined in [39]</td>
<td></td>
</tr>
<tr>
<td>&gt;Storm Flag 5</td>
<td>M</td>
<td>BOOLEAN</td>
<td>This parameter is used as defined in [39]</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.91a GANSS Additional Ionospheric Model

The IE contains fields needed to model the propagation delays of the GANSS signals through the ionosphere.
### 9.2.1.92 GANSS Navigation Model

Void.

### 9.2.1.93 GANSS Orbit Model

This IE contains information for GANSS orbit model parameters.

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data ID</td>
<td>M</td>
<td></td>
<td>BIT STRING(2)</td>
<td>Coded as defined in [18]</td>
</tr>
<tr>
<td>α₀</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td>seconds [47]</td>
</tr>
<tr>
<td>α₁</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td>sec/semi-circle [47]</td>
</tr>
<tr>
<td>α₂</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td>sec/(semi-circle) [47]</td>
</tr>
<tr>
<td>α₃</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td>sec/(semi-circle)² [47]</td>
</tr>
<tr>
<td>β₀</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td>seconds [47]</td>
</tr>
<tr>
<td>β₁</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td>sec/semi-circle [47]</td>
</tr>
<tr>
<td>β₂</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td>sec/(semi-circle) [47]</td>
</tr>
<tr>
<td>β₃</td>
<td>M</td>
<td></td>
<td>BIT STRING (8)</td>
<td>sec/(semi-circle)² [47]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Orbit Model</td>
<td>M</td>
<td></td>
<td></td>
<td>Model-1</td>
</tr>
<tr>
<td>&gt;Keplerian Parameters</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;t₀ₑ</td>
<td>M</td>
<td></td>
<td>BIT STRING(14)</td>
<td>Time-of-Ephemeris in seconds, scale factor 60 [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;ω</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Argument of Perigee (semi-circles) [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Δn</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Mean Motion Difference From Computed Value (semi-circles/sec) [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;M₀</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Mean Anomaly at Reference Time (semi-circles) [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;OMEGAdot</td>
<td>M</td>
<td></td>
<td>BIT STRING(24)</td>
<td>Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles/sec) [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;e</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Eccentricity, scale factor 2⁻³³ [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Idot</td>
<td>M</td>
<td></td>
<td>BIT STRING(14)</td>
<td>Rate of Inclination Angle (semi-circles/sec) [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;sqrtA</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Semi-Major Axis in (meters)¹²⁻¹⁸, scale factor 2⁻¹⁶ [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;i₀</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Inclination Angle at Reference Time (semi-circles) [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;OMEGA₀</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Longitude of Ascending Node of Orbit Plane at Weekly Epoch (semi-circles) [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cᵣ₉</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Amplitude of the Sine Harmonic Correction Term to the Orbit Radius (meters) [39]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Cᵣ₉</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Amplitude of the Sine Harmonic Correction Term To The Angle Of Inclination (radians) [39]</td>
</tr>
</tbody>
</table>
### 9.2.1.93a  GANSS Additional Orbit Models

This IE contains information for GANSS orbit model parameters.

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Additional Orbit Models</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;NAV-Keplerian Parameters</td>
<td></td>
<td></td>
<td></td>
<td>Model-2</td>
</tr>
<tr>
<td>&gt;&gt;URA Index</td>
<td>M</td>
<td></td>
<td>BIT STRING(4)</td>
<td>SV accuracy (dimensionless) [47]</td>
</tr>
<tr>
<td>&gt;&gt;Fit Interval Flag</td>
<td>M</td>
<td></td>
<td>BIT STRING(1)</td>
<td>Fit interval indication (dimensionless) [47]</td>
</tr>
<tr>
<td>&gt;&gt;t&lt;sub&gt;0&lt;/sub&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Time of ephemeris (seconds) [47]</td>
</tr>
<tr>
<td>&gt;&gt;ω</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Argument of perigee (semi-circles) [47]</td>
</tr>
<tr>
<td>&gt;&gt;Δn</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Mean motion difference from computed value (semi-circles/sec) [47]</td>
</tr>
<tr>
<td>&gt;&gt;M&lt;sub&gt;0&lt;/sub&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Mean anomaly at reference time (semi-circles) [47]</td>
</tr>
<tr>
<td>&gt;&gt;OMEGA&lt;sub&gt;dot&lt;/sub&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(24)</td>
<td>Rate of right ascension (semi-circles/sec) [47]</td>
</tr>
<tr>
<td>&gt;&gt;e</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Eccentricity (dimensionless) [47]</td>
</tr>
<tr>
<td>&gt;&gt;Idot</td>
<td>M</td>
<td></td>
<td>BIT STRING(14)</td>
<td>Rate of inclination angle (semi-circles/sec) [47]</td>
</tr>
<tr>
<td>&gt;&gt;sqrtA</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Square root of semi-major axis (meters&lt;sup&gt;1/2&lt;/sup&gt;) [47]</td>
</tr>
<tr>
<td>&gt;&gt;i&lt;sub&gt;0&lt;/sub&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Inclination angle at reference time (semi-circles) [47]</td>
</tr>
<tr>
<td>&gt;&gt;OMEGA&lt;sub&gt;0&lt;/sub&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(32)</td>
<td>Longitude of ascending node of orbit plane at weekly epoch (semi-circles) [47]</td>
</tr>
<tr>
<td>&gt;&gt;C&lt;sub&gt;rs&lt;/sub&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Amplitude of sine harmonic correction term to the orbit radius (meters) [47]</td>
</tr>
<tr>
<td>&gt;&gt;C&lt;sub&gt;us&lt;/sub&gt;</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>Amplitude of sine harmonic correction term to the angle of inclination (radians) [47]</td>
</tr>
<tr>
<td>IE/Group name</td>
<td>Presence</td>
<td>Range</td>
<td>IE Type and Reference</td>
<td>Semantics description</td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
<td>-------</td>
<td>-----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>$\text{&gt;&gt;C_{us}}$</td>
<td>M</td>
<td></td>
<td>BIT STRING (16)</td>
<td>Amplitude of sine harmonic correction term to the argument of latitude (radians) [47]</td>
</tr>
<tr>
<td>$\text{&gt;&gt;C_{uc}}$</td>
<td>M</td>
<td></td>
<td>BIT STRING (16)</td>
<td>Amplitude of cosine harmonic correction term to the orbit radius (meters) [47]</td>
</tr>
<tr>
<td>$\text{&gt;&gt;C_{ic}}$</td>
<td>M</td>
<td></td>
<td>BIT STRING (16)</td>
<td>Amplitude of cosine harmonic correction term to the angle of inclination (radians) [47]</td>
</tr>
<tr>
<td>$\text{&gt;&gt;C_{uc}}$</td>
<td>M</td>
<td></td>
<td>BIT STRING (16)</td>
<td>Amplitude of cosine harmonic correction term to the argument of latitude (radians) [47]</td>
</tr>
<tr>
<td>IE/Group name</td>
<td>Presence</td>
<td>Range</td>
<td>IE Type and Reference</td>
<td>Semantics description</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
<td>-------</td>
<td>-----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>&gt;CNAV/CNAV-2 Keplerian Parameters</td>
<td></td>
<td></td>
<td></td>
<td>Model-3</td>
</tr>
<tr>
<td>&gt;&gt;tssp</td>
<td>M</td>
<td></td>
<td>BIT STRING (11)</td>
<td>Data predict time of week (seconds) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;URAoe Index</td>
<td>M</td>
<td></td>
<td>BIT STRING (5)</td>
<td>SV accuracy (dimensionless) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;ΔA</td>
<td>M</td>
<td></td>
<td>BIT STRING (26)</td>
<td>Semi-major axis difference at reference time (meters) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;A_dot</td>
<td>M</td>
<td></td>
<td>BIT STRING (25)</td>
<td>Change rate in semi-major axis (meters/sec) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;Δn0</td>
<td>M</td>
<td></td>
<td>BIT STRING (17)</td>
<td>Mean motion difference from computed value at reference time (semi-circles/sec) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;Δn0_dot</td>
<td>M</td>
<td></td>
<td>BIT STRING (23)</td>
<td>Rate of mean motion difference from computed value (semi-circles/sec²) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;M0-n</td>
<td>M</td>
<td></td>
<td>Bit String (33)</td>
<td>Mean anomaly at reference time (semi-circles) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;e_n</td>
<td>M</td>
<td></td>
<td>BIT STRING (33)</td>
<td>Eccentricity (dimensionless) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;ω_n</td>
<td>M</td>
<td></td>
<td>Bit String (33)</td>
<td>Argument of perigee (semi-circles) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;Ω0-n</td>
<td>M</td>
<td></td>
<td>BIT STRING (33)</td>
<td>Reference right ascension angle (semi-circles) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;ΔΩ_dot</td>
<td>M</td>
<td></td>
<td>BIT STRING (17)</td>
<td>Rate of right ascension difference (semi-circles/sec) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;io-n</td>
<td>M</td>
<td></td>
<td>BIT STRING (33)</td>
<td>Inclination angle at reference time (semi-circles) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;I0_n_dot</td>
<td>M</td>
<td></td>
<td>BIT STRING (15)</td>
<td>Rate of inclination angle (semi-circles/sec) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;Cis-n</td>
<td>M</td>
<td></td>
<td>BIT STRING (16)</td>
<td>Amplitude of sine harmonic correction term to the angle of inclination (radians) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;Cis-n</td>
<td>M</td>
<td></td>
<td>BIT STRING (16)</td>
<td>Amplitude of cosine harmonic correction term to the angle of inclination (radians) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;Crs-n</td>
<td>M</td>
<td></td>
<td>BIT STRING (24)</td>
<td>Amplitude of sine harmonic correction term to the orbit radius (meters) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;Crc-n</td>
<td>M</td>
<td></td>
<td>BIT STRING (24)</td>
<td>Amplitude of cosine harmonic correction term to the orbit radius (meters) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;Cus-n</td>
<td>M</td>
<td></td>
<td>BIT STRING (21)</td>
<td>Amplitude of sine harmonic correction term to the argument of latitude (radians) [43,44,45,47]</td>
</tr>
<tr>
<td>&gt;&gt;Cuc-n</td>
<td>M</td>
<td></td>
<td>BIT STRING (21)</td>
<td>Amplitude of cosine harmonic correction term to the argument of latitude (radians) [43,44,45,47]</td>
</tr>
<tr>
<td>IE/Group name</td>
<td>Presence</td>
<td>Range</td>
<td>IE Type and Reference</td>
<td>Semantics description</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
<td>-------</td>
<td>-----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>&gt;GLONASS Earth-Centered, Earth-fixed Parameters</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Eₙ(tₖ)</td>
<td>M</td>
<td></td>
<td>BIT STRING (5)</td>
<td>Age of data (days) [48]</td>
</tr>
<tr>
<td>&gt;&gt;P₁</td>
<td>M</td>
<td></td>
<td>BIT STRING (2)</td>
<td>Time interval between two adjacent values of tₖ (minutes) [48]</td>
</tr>
<tr>
<td>&gt;&gt;P₂</td>
<td>M</td>
<td></td>
<td>BIT STRING (1)</td>
<td>Change of tₖ flag (dimensionless) [48]</td>
</tr>
<tr>
<td>&gt;&gt;M</td>
<td>O</td>
<td></td>
<td>BIT STRING (2)</td>
<td>Type of satellite (dimensionless) [48]</td>
</tr>
<tr>
<td>&gt;&gt;xₙ(tₖ)</td>
<td>M</td>
<td></td>
<td>BIT STRING (27)</td>
<td>x-coordinate of satellite at time tₖ (kilometers) [48]</td>
</tr>
<tr>
<td>&gt;&gt;ẋₙ(tₖ)</td>
<td>M</td>
<td></td>
<td>BIT STRING (24)</td>
<td>x-coordinate of satellite velocity at time tₖ (kilometers/sec) [48]</td>
</tr>
<tr>
<td>&gt;&gt;ẍₙ(tₖ)</td>
<td>M</td>
<td></td>
<td>BIT STRING (5)</td>
<td>x-coordinate of satellite acceleration at time tₖ (kilometers/sec²) [48]</td>
</tr>
<tr>
<td>&gt;&gt;yₙ(tₖ)</td>
<td>M</td>
<td></td>
<td>BIT STRING (27)</td>
<td>y-coordinate of satellite at time tₖ (kilometers) [48]</td>
</tr>
<tr>
<td>&gt;&gt;ẏₙ(tₖ)</td>
<td>M</td>
<td></td>
<td>BIT STRING (24)</td>
<td>y-coordinate of satellite velocity at time tₖ (kilometers/sec) [48]</td>
</tr>
<tr>
<td>&gt;&gt;ẏₙ(tₖ)</td>
<td>M</td>
<td></td>
<td>BIT STRING (5)</td>
<td>y-coordinate of satellite acceleration at time tₖ (kilometers/sec²) [48]</td>
</tr>
<tr>
<td>&gt;&gt;zₙ(tₖ)</td>
<td>M</td>
<td></td>
<td>BIT STRING (27)</td>
<td>z-coordinate of satellite at time tₖ (kilometers) [48]</td>
</tr>
<tr>
<td>&gt;&gt;ẑₙ(tₖ)</td>
<td>M</td>
<td></td>
<td>BIT STRING (24)</td>
<td>z-coordinate of satellite velocity at time tₖ (kilometers/sec) [48]</td>
</tr>
<tr>
<td>&gt;&gt;ẑₙ(tₖ)</td>
<td>M</td>
<td></td>
<td>BIT STRING (5)</td>
<td>z-coordinate of satellite acceleration at time tₖ (kilometers/sec²) [48]</td>
</tr>
<tr>
<td>&gt;SBAS Earth-Centered, Earth-fixed Parameters</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;t₀</td>
<td>C-ClockModel</td>
<td></td>
<td>BIT STRING (13)</td>
<td>Time of applicability (seconds) [46]</td>
</tr>
<tr>
<td>&gt;&gt;Accuracy</td>
<td>M</td>
<td></td>
<td>BIT STRING (4)</td>
<td>(dimensionless) [46]</td>
</tr>
<tr>
<td>&gt;&gt;X₀</td>
<td>M</td>
<td></td>
<td>BIT STRING (30)</td>
<td>(meters) [46]</td>
</tr>
<tr>
<td>&gt;&gt;Y₀</td>
<td>M</td>
<td></td>
<td>BIT STRING (30)</td>
<td>(meters) [46]</td>
</tr>
<tr>
<td>&gt;&gt;Z₀</td>
<td>M</td>
<td></td>
<td>BIT STRING (25)</td>
<td>(meters) [46]</td>
</tr>
<tr>
<td>&gt;&gt;X₀ Rate-of-Change</td>
<td>M</td>
<td></td>
<td>BIT STRING (17)</td>
<td>(meters/sec) [46]</td>
</tr>
<tr>
<td>&gt;&gt;Y₀ Rate-of-Change</td>
<td>M</td>
<td></td>
<td>BIT STRING (17)</td>
<td>(meters/sec) [46]</td>
</tr>
<tr>
<td>&gt;&gt;Z₀ Rate-of-Change</td>
<td>M</td>
<td></td>
<td>BIT STRING (18)</td>
<td>(meters/sec) [46]</td>
</tr>
<tr>
<td>&gt;&gt;X₀ Acceleration</td>
<td>M</td>
<td></td>
<td>BIT STRING (10)</td>
<td>(meters/sec²) [46]</td>
</tr>
<tr>
<td>&gt;&gt;Y₀ Acceleration</td>
<td>M</td>
<td></td>
<td>BIT STRING (10)</td>
<td>(meters/sec²) [46]</td>
</tr>
<tr>
<td>&gt;&gt;Z₀ Acceleration</td>
<td>M</td>
<td></td>
<td>BIT STRING (10)</td>
<td>(meters/sec²) [46]</td>
</tr>
</tbody>
</table>
### 9.2.1.94 GANSS Real Time Integrity

This IE contains parameters that describe the real-time status of the GANSS constellation.

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satellite Information</td>
<td></td>
<td>1 to &lt;maxGANSSSat&gt;</td>
<td>INTEGER(0.63)</td>
<td>Defined in [18].</td>
</tr>
<tr>
<td>&gt;Bad GANSS Sat ID</td>
<td>M</td>
<td></td>
<td>BIT STRING(8)</td>
<td>Coded as defined in [18].</td>
</tr>
<tr>
<td>&gt;Bad GANSS Signal ID</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxGANSSSat</td>
<td>Maximum number of satellites for which data is included in the IE</td>
</tr>
</tbody>
</table>

### 9.2.1.95 GANSS Receiver Geographical Position (GANSS RX Pos)

The GANSS Receiver Geographical Position IE is used to identify the geographical coordinates of a GANSS receiver relevant for a certain Information Exchange Object.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude Sign</td>
<td>M</td>
<td>ENUMERATED (North, South)</td>
<td></td>
<td>The IE value (N) is derived by this formula: N ≤ 2^31 X /90 &lt; N+1 X being the latitude in degree (0°..90°)</td>
</tr>
<tr>
<td>Degrees of Latitude</td>
<td>M</td>
<td>INTEGER (0..2^31-1)</td>
<td></td>
<td>The IE value (N) is derived by this formula: N ≤ 2^32 X /360 &lt; N+1 X being the longitude in degree (-180°..+180°)</td>
</tr>
<tr>
<td>Degrees of Longitude</td>
<td>M</td>
<td>INTEGER (-2^31..2^31-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direction of Altitude</td>
<td>M</td>
<td>ENUMERATED (Height, Depth)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Altitude</td>
<td>M</td>
<td>INTEGER (0..2^15-1)</td>
<td></td>
<td>The relation between the value (N) and the altitude (a) in meters it describes is N ≤ a &lt; N+1, except for N=2^15-1 for which the range is extended to include all greater values of (a).</td>
</tr>
</tbody>
</table>

### 9.2.1.96 GANSS Time Model

The GANSS Time Model IE contains a set of parameters needed to relate GANSS time to selected time reference indicated by GNSS_TO_ID.
<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS Time Model Reference Time</td>
<td>M</td>
<td>1..&lt;maxGANSS-1&gt;</td>
<td>STRING(24)</td>
<td>maxGANSS-1 Maximum number of GANSS systems for which data is included in this IE.</td>
</tr>
<tr>
<td>ΔtLSF</td>
<td>M</td>
<td>STRING(8)</td>
<td>seconds [39]</td>
<td></td>
</tr>
<tr>
<td>WNLSF</td>
<td>M</td>
<td>STRING(8)</td>
<td>weeks [39]</td>
<td></td>
</tr>
<tr>
<td>DN</td>
<td>M</td>
<td>STRING(8)</td>
<td>days [39]</td>
<td></td>
</tr>
<tr>
<td>ΔtLS</td>
<td>M</td>
<td>STRING(8)</td>
<td>seconds [39]</td>
<td></td>
</tr>
<tr>
<td>WNt</td>
<td>M</td>
<td>STRING(8)</td>
<td>weeks [39]</td>
<td></td>
</tr>
<tr>
<td>A0</td>
<td>M</td>
<td>STRING(32)</td>
<td>seconds [39]</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>M</td>
<td>BIT STRING(24)</td>
<td>sec/sec [39]</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.97 GANSS UTC Model

The GANSS UTC Model IE contains a set of parameters needed to relate GANSS time to Universal Time Coordinate (UTC).

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>M</td>
<td>STRING(24)</td>
<td>BIT STRING(24)</td>
<td>sec/sec [39]</td>
</tr>
<tr>
<td>D0</td>
<td>M</td>
<td>STRING(32)</td>
<td>BIT STRING(32)</td>
<td>seconds [39]</td>
</tr>
<tr>
<td>tBT</td>
<td>M</td>
<td>STRING(8)</td>
<td>BIT STRING(8)</td>
<td>seconds [39]</td>
</tr>
<tr>
<td>WNt</td>
<td>M</td>
<td>STRING(8)</td>
<td>BIT STRING(8)</td>
<td>weeks [39]</td>
</tr>
<tr>
<td>ΔtLS</td>
<td>M</td>
<td>STRING(8)</td>
<td>BIT STRING(8)</td>
<td>seconds [39]</td>
</tr>
<tr>
<td>WNLSF</td>
<td>M</td>
<td>STRING(8)</td>
<td>BIT STRING(8)</td>
<td>weeks [39]</td>
</tr>
<tr>
<td>DN</td>
<td>M</td>
<td>STRING(8)</td>
<td>BIT STRING(8)</td>
<td>days [39]</td>
</tr>
<tr>
<td>ΔtLSF</td>
<td>M</td>
<td>STRING(8)</td>
<td>BIT STRING(8)</td>
<td>seconds [39]</td>
</tr>
</tbody>
</table>
9.2.1.97a  GANSS Additional UTC Models

The GANSS Additional UTC Models IE contains several sets of parameters needed to relate GANSS time to Universal Time Coordinate (UTC), as defined in [43,44,45,46,47,48].
<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Additional UTC Models</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Model Set 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; A₀ₙ</td>
<td>M</td>
<td>BIT STRING(16)</td>
<td>Bias coefficient of GNSS time scale relative to UTC time scale (seconds) [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>&gt; A₁ₙ</td>
<td>M</td>
<td>BIT STRING(13)</td>
<td>Drift coefficient of GNSS time scale relative to UTC time scale (sec/sec) [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>&gt; A₂ₙ</td>
<td>M</td>
<td>BIT STRING(7)</td>
<td>Drift rate correction coefficient of GNSS time scale relative to UTC time scale (sec/sec²) [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>&gt; Δt_LS</td>
<td>M</td>
<td>BIT STRING(8)</td>
<td>Current or past leap second count (seconds) [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>&gt; I₀t</td>
<td>M</td>
<td>BIT STRING(16)</td>
<td>Time data reference time of week (seconds) [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>&gt; W₀t</td>
<td>M</td>
<td>BIT STRING(13)</td>
<td>Time data reference week number (weeks) [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>&gt; W₀_LSB</td>
<td>M</td>
<td>BIT STRING(8)</td>
<td>Leap second reference week number (weeks) [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>&gt; D₀</td>
<td>M</td>
<td>BIT STRING(4)</td>
<td>Leap second reference day number (days) [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>&gt; Δt_LSB</td>
<td>M</td>
<td>BIT STRING(8)</td>
<td>Current or future leap second count (seconds) [43,44,45,47]</td>
<td></td>
</tr>
<tr>
<td>&gt; Model Set 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; N</td>
<td>M</td>
<td>BIT STRING(11)</td>
<td>Callendar day number within four-year period beginning since the leap year (days) [48]</td>
<td></td>
</tr>
<tr>
<td>&gt; τc</td>
<td>M</td>
<td>BIT STRING(32)</td>
<td>GLONASS time scale correction to UTC(SU) (seconds) [48]</td>
<td></td>
</tr>
<tr>
<td>&gt; Delta UT1</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; B₁</td>
<td>M</td>
<td>BIT STRING(11)</td>
<td>Coefficient to determine ΔUT1 (seconds) [48]</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; B₂</td>
<td>M</td>
<td>BIT STRING(10)</td>
<td>Coefficient to determine ΔUT1 (seconds/msd) [48]</td>
<td></td>
</tr>
<tr>
<td>&gt; KP</td>
<td>O</td>
<td>BIT STRING(2)</td>
<td>Notification of expected leap second correction (dimensionless) [48]</td>
<td></td>
</tr>
<tr>
<td>&gt; Model Set 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; A₀WNT</td>
<td>M</td>
<td>BIT STRING(24)</td>
<td>sec/sec ([46], Message Type 12)</td>
<td></td>
</tr>
<tr>
<td>&gt; A₀WNT</td>
<td>M</td>
<td>BIT STRING(32)</td>
<td>seconds ([46], Message Type 12)</td>
<td></td>
</tr>
<tr>
<td>&gt; I₀t</td>
<td>M</td>
<td>BIT STRING(8)</td>
<td>seconds ([46], Message Type 12)</td>
<td></td>
</tr>
<tr>
<td>&gt; W₀t</td>
<td>M</td>
<td>BIT STRING(8)</td>
<td>weeks ([46], Message Type 12)</td>
<td></td>
</tr>
<tr>
<td>&gt; W₀_LSB</td>
<td>M</td>
<td>BIT STRING(8)</td>
<td>seconds ([46], Message Type 12)</td>
<td></td>
</tr>
<tr>
<td>&gt; D₀</td>
<td>M</td>
<td>BIT STRING(8)</td>
<td>days ([46], Message Type 12)</td>
<td></td>
</tr>
<tr>
<td>&gt; Δt_LSB</td>
<td>M</td>
<td>BIT STRING(8)</td>
<td>seconds ([46], Message Type 12)</td>
<td></td>
</tr>
</tbody>
</table>
9.2.1.98  \text{TUTRAN-GANSS} Accuracy Class

The \text{TUTRAN-GANSS} Accuracy Class IE indicates the accuracy class of the UTRAN GANSS Timing of Cell Frames for UE Positioning measurement.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\text{TUTRAN-GANSS} Accuracy Class</td>
<td></td>
<td></td>
<td>ENUMERATED (Accuracy Class A, Accuracy Class B, Accuracy Class C, ...)</td>
<td>More information about \text{TUTRAN-GANSS} Measurement Accuracy Class is included in [22] and [23].</td>
</tr>
</tbody>
</table>

9.2.1.99  \text{TUTRAN-GANSS} Measurement Threshold Information

The \text{TUTRAN-GANSS} Measurement Threshold Information IE defines the related thresholds for UTRAN GANSS Timing of Cell Frames for UE Positioning measurements shall trigger the event On Modification.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\text{TUTRAN-GANSS} Change Limit</td>
<td>O</td>
<td></td>
<td>INTEGER (1..256)</td>
<td>Change of \text{TUTRAN-GANSS} value compared to previously reported value, which shall trigger a new report. Unit in 1/16 chip.</td>
</tr>
<tr>
<td>Predicted \text{TUTRAN-GANSS} Deviation Limit</td>
<td>O</td>
<td></td>
<td>INTEGER (1..256)</td>
<td>Deviation of the predicated \text{TUTRAN-GANSS} from the latest measurement result, which shall trigger a new report. Unit in 1/16 chip.</td>
</tr>
</tbody>
</table>

9.2.1.100  \text{TUTRAN-GANSS} Measurement Value Information

The \text{TUTRAN-GANSS} Measurement Value Information IE indicates the measurement results related to the UTRAN GANSS Timing of Cell Frames for UE Positioning measurements.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTRAN-GANSS</td>
<td>M</td>
<td></td>
<td></td>
<td>Indicates the UTRAN GANSS Timing of Cell Frames for UE Positioning. According to mapping in [23]; significant values range from 0 to 37158911999999.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;MS</td>
<td>M</td>
<td>INTEGER(0..16383)</td>
<td>Most Significant Part</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;LS</td>
<td>M</td>
<td>INTEGER(0..4294967295)</td>
<td>Least Significant Part</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTRAN-GANSS Quality</td>
<td>O</td>
<td>INTEGER(0..255)</td>
<td></td>
<td>Indicates the standard deviation (std) of the UTRAN-GANSS measurements in 1/16 chip.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTRAN-GANSS Drift Rate</td>
<td>M</td>
<td>INTEGER(-50..50)</td>
<td></td>
<td>Indicates the UTRAN-GANSS drift rate in 1/256 chip per second. A positive value indicates that the UTRAN clock is running at a lower frequency than GANSS clock.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTRAN-GANSS Drift Rate Quality</td>
<td>O</td>
<td>INTEGER(0..50)</td>
<td></td>
<td>Indicates the standard deviation (std) of the UTRAN-GANSS drift rate measurements in 1/256 chip per second. UTRAN-GANSS Drift Rate Quality $\sqrt{E[(x-\mu)^2]} = \text{std of reported }T_{\text{UTRAN-GANSS}} \text{ Drift Rate Value}$, where $x$ is the reported $T_{\text{UTRAN-GANSS}} \text{ Drift Rate Value}$ and $\mu = E[x]$ is the expectation value of $x$.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
and \( \mu = E[x] \) is the expectation value of \( x \).

| GANSS Time ID | O | 9.2.1.104a | Absence of this IE means Galileo system time. | YES | ignore |

9.2.1.101   GANSS Reference Time

Void.
## 9.2.1.102 HARQ Memory Partitioning

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHOICE HARQ Memory Partitioning</strong></td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Implicit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Number of Processes M</td>
<td>INTEGER (1..8,...,12,14,16)</td>
<td>For HARQ process IDs going from 0 to &quot;Number of Processes&quot; – 1 the Total number of soft channel bits [33] is partitioned equally between all HARQ processes according to the rules in [18].</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Explicit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; HARQ Memory Partitioning Information M</td>
<td>1..&lt;maxnofHARQprocesses&gt;</td>
<td>The first instance of the parameter corresponds to HARQ process with identifier 0, the second instance to HARQ process with identifier 1, and so on.</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Process Memory Size M</td>
<td>9.2.1.49D</td>
<td>See [18]</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; HARQ Memory Partitioning Information Extension For MIMO M</td>
<td>0, 4, 6 or 8</td>
<td>For FDD and 1.28Mcps TDD only The 1st instance corresponds to HARQ process with identifier set to 'maxnofHARQprocesses', the 2nd instance to HARQ process with identifier set to 'maxnofHARQprocesses+1', and so on.</td>
<td>GLOBAL ignore</td>
<td>–</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Range Bound

<table>
<thead>
<tr>
<th>Expression</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MaxnofHARQprocesses</td>
<td>Maximum number of HARQ processes for one UE [FDD and 1.28Mcps TDD- per stream (the maximum number of HARQ processes per UE is 2 * MaxnofHARQprocesses in dual stream transmission mode)]</td>
</tr>
</tbody>
</table>
9.2.1.103 GANSS Data Bit Assistance

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS TOD</td>
<td>M</td>
<td></td>
<td>INTEGER(0..59,…)</td>
<td>Reference time (modulo 1 minute) of the first bit of the data in Data Bits IE, in seconds.</td>
</tr>
</tbody>
</table>

| Data Bit Assistance List | 1..<maxGANS SSat> | M | INTEGER(0..63) | Defined in [18]. |
| Data Bit Assistance Sgn List | 1..<maxSgnType> | M | STRING(1..1024) | Raw data bits as transmitted from a specific satellite at the time indicated by GANSS_TOD. See [18]. |

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxGANS SSat</td>
<td>Maximum number of satellites for which data is included in the IE</td>
</tr>
<tr>
<td>maxSgnType</td>
<td>Maximum number of GANSS signals included in the IE</td>
</tr>
</tbody>
</table>

9.2.1.104 GANSS ID

This IE defines a particular GANSS.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS ID</td>
<td>M</td>
<td></td>
<td>INTEGER(0..7,…)</td>
<td>Defines the GANSS and is coded as defined in [18].</td>
</tr>
</tbody>
</table>

9.2.1.104a GANSS Time ID

This IE defines a particular GANSS system time.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS Time ID</td>
<td>M</td>
<td></td>
<td>INTEGER(0..7,…)</td>
<td>Defines the GANSS system time for the UTRAN GANSS Timing of Cell Frames for UE Positioning. Coded as defined in [18], subclause 10.3.7.93a.</td>
</tr>
</tbody>
</table>

9.2.1.105 GANSS Navigation Model And Time Recovery

This IE contain information required to manage the transfer of precise navigation data to the GANSS-capable UE.
<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Broadcast Indication</td>
<td>O ENUMERATED(true) If this IE is present, GANSS navigation model is not derived from satellite broadcast. See NOTE 1</td>
</tr>
<tr>
<td>Satellite Information</td>
<td>1 to &lt;maxGANSSSat&gt;</td>
</tr>
<tr>
<td>&gt;Sat ID</td>
<td>M INTEGER(0..63) Defined in [18].</td>
</tr>
<tr>
<td>&gt;SV Health</td>
<td>M BIT STRING(5) Coded as defined in [39]</td>
</tr>
<tr>
<td>&gt;IOD</td>
<td>M BIT STRING(10)</td>
</tr>
<tr>
<td>&gt;GANSS Clock Model</td>
<td>M 9.2.1.90</td>
</tr>
<tr>
<td>&gt;GANSS Orbit Model</td>
<td>M 9.2.1.93</td>
</tr>
</tbody>
</table>

NOTE 1: The Non-Broadcast Indication allows to inform that the navigation model is not bit-to-bit the one broadcast by the satellite. If it is set to 1, the UE is informed that techniques such as data wiping off applied to the navigation model may not work for instance.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orbit model</td>
<td>The IE shall be present if the GANSS Orbit Model IE indicates 'Keplerian Parameters'.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxGANSSSat</td>
<td>Maximum number of satellites for which data is included in the IE.</td>
</tr>
</tbody>
</table>

### 9.2.1.105a  GANSS Additional Navigation Models And Time Recovery

This IE contain information required to manage the transfer of precise navigation data to the GANSS-capable UE.

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS Transmission Time</td>
<td>M</td>
<td>9.2.1.107</td>
<td></td>
<td>GANSS Time when the Navigation model has been retrieved</td>
</tr>
<tr>
<td>Non-Broadcast Indication</td>
<td>O</td>
<td>ENUMERATED(true)</td>
<td>If this IE is present, GANSS navigation model is not derived from satellite broadcast. See NOTE 1 in 9.2.1.105.</td>
<td></td>
</tr>
<tr>
<td>Satellite Information</td>
<td>1..&lt;maxGANSSSat&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Sat ID</td>
<td>M</td>
<td>INTEGER(0..63)</td>
<td>Defined in [18].</td>
<td></td>
</tr>
<tr>
<td>&gt;SV Health</td>
<td>M</td>
<td>BIT STRING(6)</td>
<td>Coded as defined in [18].</td>
<td></td>
</tr>
<tr>
<td>&gt;IOD</td>
<td>M</td>
<td>BIT STRING(11)</td>
<td>Coded as defined in [18].</td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Additional Clock Models</td>
<td>M</td>
<td>GANSS Additional Clock Models 9.2.1.90a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS Additional Orbit Models</td>
<td>M</td>
<td>GANSS Additional Orbit Models 9.2.1.93a</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.1.106 GANSS Signal ID

This IE defines a specific signal within a particular GANSS.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS Signal ID</td>
<td>M</td>
<td></td>
<td>INTEGER(0..7,…)</td>
<td>Coded as defined in [18].</td>
</tr>
</tbody>
</table>

### 9.2.1.107 GANSS Transmission Time

This IE indicates the GANSS Transmission Time.

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS Day</td>
<td>O</td>
<td></td>
<td>INTEGER(0..8191)</td>
<td>The sequential number of days from the origin of the GNSS system time (indicated by the GANSS_ID given in the Requested Data Value IE) modulo 8192 days (about 22 years).</td>
</tr>
<tr>
<td>GANSS TOD</td>
<td>M</td>
<td></td>
<td>INTEGER(0..86399)</td>
<td>GANSS Time of Day in seconds</td>
</tr>
</tbody>
</table>
9.2.1.107a  GANSS Earth Orientation Parameters

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>tEOP</td>
<td>M</td>
<td></td>
<td>BIT STRING(16)</td>
<td>EOP data reference time (seconds) [43]</td>
</tr>
<tr>
<td>PM_X</td>
<td>M</td>
<td></td>
<td>BIT STRING (21)</td>
<td>X-axis polar motion value at reference time (arc-seconds) [43]</td>
</tr>
<tr>
<td>PM_X_dot</td>
<td>M</td>
<td></td>
<td>BIT STRING (15)</td>
<td>X-axis polar motion drift at reference time (arc-seconds/day) [43]</td>
</tr>
<tr>
<td>PM_Y</td>
<td>M</td>
<td></td>
<td>BIT STRING (21)</td>
<td>Y-axis polar motion value at reference time (arc-seconds) [43]</td>
</tr>
<tr>
<td>PM_Y_dot</td>
<td>M</td>
<td></td>
<td>BIT STRING (15)</td>
<td>Y-axis polar motion drift at reference time (arc-seconds/day) [43]</td>
</tr>
<tr>
<td>ΔUT1</td>
<td>M</td>
<td></td>
<td>BIT STRING (31)</td>
<td>UT1-UTC difference at reference time (seconds) [43]</td>
</tr>
<tr>
<td>ΔUT1_dot</td>
<td>M</td>
<td></td>
<td>BIT STRING (19)</td>
<td>Rate of UT1-UTC difference at reference time (seconds/day) [43]</td>
</tr>
</tbody>
</table>

9.2.1.107b  SBAS ID

This IE defines a specific SBAS.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBAS ID</td>
<td>M</td>
<td></td>
<td>ENUMERATED(WAAS, EGNOS, MSAS, GAGAN, ...)</td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.1.107c  GANSS Auxiliary Information

<table>
<thead>
<tr>
<th>IE/Group name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE GANSS-ID</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;GANSS-ID-1</td>
<td></td>
<td></td>
<td></td>
<td>This choice may only be present if GANSS ID indicated 'Modernized GPS'</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Aux Info List</td>
<td></td>
<td>1 .. &lt;maxGANSSSat&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Sat ID</td>
<td>M</td>
<td>INTEGER(0..63)</td>
<td></td>
<td>Defined in [18].</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Signals Available</td>
<td>M</td>
<td>BIT STRING(8)</td>
<td></td>
<td>Coded as defined in [18].</td>
</tr>
<tr>
<td>&gt;GANSS-ID-3</td>
<td></td>
<td></td>
<td></td>
<td>This choice may be present if GANSS ID indicated 'GLONASS'</td>
</tr>
<tr>
<td>&gt;&gt;&gt;Aux Info List</td>
<td></td>
<td>1 .. &lt;maxGANSSSat&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Sat ID</td>
<td>M</td>
<td>INTEGER(0..63)</td>
<td></td>
<td>Defined in [18].</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Signals Available</td>
<td>M</td>
<td>BIT STRING(8)</td>
<td></td>
<td>Coded as defined in [18].</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Channel Number</td>
<td>M</td>
<td>INTEGER(-7..13)</td>
<td></td>
<td>This field indicates the GLONASS carrier frequency number of the satellite identified by Sat ID, as defined in [48].</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxGANSSSat</td>
<td>Maximum number of GANSS satellites for which data is included in this IE.</td>
</tr>
</tbody>
</table>

### 9.2.1.107d  Additional Ionospheric Model Request

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Ionospheric Model Request</td>
<td>M</td>
<td></td>
<td>BIT STRING(2)</td>
<td>Data ID for GANSS Additional Ionospheric Model as defined in [18], subclause 10.3.7.92b.</td>
</tr>
</tbody>
</table>

### 9.2.1.107e  Earth Orientation Parameters Request

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth Orientation Parameters Request</td>
<td>M</td>
<td>BOOLEAN</td>
<td></td>
<td>True means requested.</td>
</tr>
</tbody>
</table>

### 9.2.1.107f  GANSS Additional Navigation Models And Time Recovery Request

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS Additional Navigation Models And Time Recovery Request</td>
<td>M</td>
<td>BOOLEAN</td>
<td></td>
<td>True means requested.</td>
</tr>
</tbody>
</table>
9.2.1.107g  GANSS Additional UTC Models Request

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS Additional UTC Models Request</td>
<td>M</td>
<td></td>
<td>BOOLEAN</td>
<td>True means requested.</td>
</tr>
</tbody>
</table>

9.2.1.107h  GANSS Auxiliary Information Request

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GANSS Auxiliary Information Request</td>
<td>M</td>
<td></td>
<td>BOOLEAN</td>
<td>True means requested.</td>
</tr>
</tbody>
</table>

9.2.1.108  IP Multicast Indication

The *IP Multicast Indication* IE indicates the IP multicast group information dedicated to an MBMS service and the CFN Offset, defined as the offset between MFN and CFN for a FACH. When Node B receives such an indication, if supported, it may join the corresponding IP multicast group. When Node B receives data frame from this IP multicast group, it shall consider the value of the CFN field in the data frame as MFN and calculate the actual CFN for the concerned FACH according to following equation:

\[ CFN = (MFN – CFN Offset) \mod 256. \]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Layer Address</td>
<td>M</td>
<td></td>
<td>9.2.1.63</td>
<td>An MBMS service corresponds to a dedicated IP multicast address.</td>
</tr>
<tr>
<td>Binding ID</td>
<td>M</td>
<td></td>
<td>9.2.1.4</td>
<td>Indicating multicast port.</td>
</tr>
<tr>
<td>CFN Offset</td>
<td>M</td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.109  IP Multicast Data Bearer Indication

The *IP Multicast Data Bearer Indication* IE indicates whether the Node B is ready for receiving concerned MBMS service data through IP multicast transport bearer.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Multicast Data Bearer Indication</td>
<td></td>
<td></td>
<td>BOOLEAN</td>
<td>True: IP multicast data bearer is used. False: IP multicast data bearer is not used.</td>
</tr>
</tbody>
</table>

9.2.1.110  SixtyfourQAM DL Capability

This parameter defines the SixtyfourQAM downlink capability for a Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SixtyfourQAM DL Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (SixtyfourQAM DL Capable, SixtyfourQAM DL Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>
9.2.1.111  FACH Measurement Occasion Cycle Length Coefficient

The FACH Measurement Occasion Cycle Length Coefficient IE provides information used for MAC-hs scheduling decision for MAC-c PDU in Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACH Measurement Occasion Cycle Length Coefficient</td>
<td></td>
<td></td>
<td>INTEGER (1..12)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.112  MAC-ehs Reset Timer

The MAC-ehs Reset Timer IE is used as Reset Timer(Treset) described in ref [32] subclause 11.6.4.5.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-ehs Reset Timer</td>
<td></td>
<td></td>
<td>ENUMERATED (1, 2, 3, 4, …)</td>
<td>Timer in multiples of T1 values (milliseconds). Used when MAC-ehs reordering queue is reset in CELL_FACH and CELL_PCH</td>
</tr>
</tbody>
</table>

9.2.1.113  Paging MAC Flow ID

Paging MAC Flow ID is the unique identifier for one Paging MAC flow.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paging MAC Flow ID</td>
<td></td>
<td></td>
<td>INTEGER (0..3)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.114  Enhanced FACH Capability

This parameter defines the Enhanced FACH capability for a Local Cell. [1.28Mcps TDD - This parameter defines the Enhanced FACH capability for both uplink and downlink]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhanced FACH Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (Enhanced FACH Capable, Enhanced FACH Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.115  Enhanced PCH Capability

This parameter defines the Enhanced PCH capability for a Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhanced PCH Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (Enhanced PCH Capable, Enhanced PCH Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>
9.2.1.116 Enhanced UE DRX Capability

This parameter defines the Enhanced UE DRX capability for a Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhanced UE DRX Capability</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Enhanced UE DRX Capable, Enhanced UE DRX non Capable)</td>
</tr>
</tbody>
</table>

9.2.1.117 Priority Queue Information for Enhanced FACH/PCH

The *Priority Queue Information for Enhanced FACH/PCH* IE provides information associated to HSDPA Priority Queue used for Enhanced FACH and/or Enhanced PCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority Queue ID</td>
<td>M</td>
<td></td>
<td>9.2.1.49C</td>
<td></td>
</tr>
<tr>
<td>Scheduling Priority Indicator</td>
<td>M</td>
<td></td>
<td>9.2.1.53H</td>
<td></td>
</tr>
<tr>
<td>T1</td>
<td>M</td>
<td></td>
<td>9.2.1.56a</td>
<td></td>
</tr>
<tr>
<td>MAC-ehs Reset Timer</td>
<td>M</td>
<td></td>
<td>9.2.1.112</td>
<td></td>
</tr>
<tr>
<td>Discard Timer</td>
<td>O</td>
<td></td>
<td>9.2.1.24E</td>
<td>Shall be ignored in case of Enhanced PCH</td>
</tr>
<tr>
<td>MAC-hs Window Size</td>
<td>M</td>
<td></td>
<td>9.2.1.38B</td>
<td></td>
</tr>
<tr>
<td>Maximum MAC-c PDU Size</td>
<td>M</td>
<td></td>
<td>9.2.1.38C</td>
<td>MAC PDU Size Extended 9.2.1.38C</td>
</tr>
</tbody>
</table>

9.2.1.118 MIMO Capability

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIMO Capability</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(MIMO Capable, MIMO Non-Capable)</td>
</tr>
</tbody>
</table>

9.2.1.119 MIMO Activation Indicator

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIMO Activation Indicator</td>
<td>M</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

9.2.1.120 MIMO Mode Indicator

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIMO Mode Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Activate, Deactivate)</td>
</tr>
</tbody>
</table>

9.2.1.121 SixtyfourQAM DL and MIMO Combined Capability

This parameter defines the SixtyfourQAM downlink and MIMO combined capability for a Local Cell.
### 9.2.1.122 DL RLC PDU Size Format

The DL *RLC PDU Size Format* IE indicates the downlink RLC PDU size format used for a Priority Queue.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL RLC PDU Size Format</td>
<td></td>
<td></td>
<td>ENUMERATED (Fixed RLC PDU size, Flexible RLC PDU size,...)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.1.123 UE Aggregate Maximum Bit Rate

The *UE Aggregate Maximum Bitrate* IE is applicable for all Non-GBR bearers per UE which is defined for the Downlink and the Uplink direction and provided by the CN to the RNC. At least one of the *UE Aggregate Maximum Bit Rate Downlink* IE and *UE Aggregate Maximum Bit Rate Uplink* IE shall be included in the *UE Aggregate Maximum Bit Rate* IE.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE type and reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UE Aggregate Maximum Bit Rate</td>
<td></td>
<td></td>
<td></td>
<td>Desc: Applicable for non-GBR bearers</td>
</tr>
<tr>
<td>&gt;UE Aggregate Maximum Bit Rate Downlink</td>
<td>O</td>
<td></td>
<td>INTEGER (1..1,000,00 0,000)</td>
<td>Desc: This IE indicates the aggregated maximum number of bits delivered by UTRAN and to UTRAN in DL within a period of time, divided by the duration of the period for all non-GBR bearers in one UE. The MBR of non-GBR bearers shall be ignored if this IE present.</td>
</tr>
<tr>
<td>&gt;UE Aggregate Maximum Bit Rate Uplink</td>
<td>O</td>
<td></td>
<td>INTEGER (1..1,000,00 0,000)</td>
<td>Desc: This IE indicates the aggregated maximum number of bits delivered by UTRAN and to UTRAN in UL within a period of time, divided by the duration of the period for all non-GBR bearers in one UE. The MBR of non-GBR bearers shall be ignored if this IE present.</td>
</tr>
</tbody>
</table>
9.2.1.124 Dormant Mode Indicator

The *Dormant Mode Indicator* IE controls the dormant mode for the cell. In dormant mode there is no power transmitted in the cell, but the cell remains existing in the NodeB. When *Dormant Mode Indicator* IE = "Enter Dormant Mode" the NodeB is requested to reconfigure the cell to dormant mode. When *Dormant Mode Indicator* IE = "Leave Dormant Mode" the NodeB is requested to take the cell into normal service.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dormant Mode Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Enter Dormant Mode, Leave Dormant Mode, ...)</td>
</tr>
</tbody>
</table>

9.2.1.125 DGNSS Validity Period

This IE defines the validity period of the GNSS differential corrections provided in *DGPS corrections* and *DGANSS corrections* IEs.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDRE Growth Rate</td>
<td>M</td>
<td></td>
<td>Enumerated</td>
<td>UDRE growth 1.5, UDRE growth 2, UDRE growth 4, UDRE growth 6, UDRE growth 8, UDRE growth 10, UDRE growth 12, UDRE growth 16)</td>
</tr>
<tr>
<td>Time of Validity for UDRE</td>
<td>M</td>
<td></td>
<td>Enumerated</td>
<td>UDRE growth rate 1.5, UDRE growth rate 2, UDRE growth rate 4, UDRE growth rate 6, UDRE growth rate 8, UDRE growth rate 10, UDRE growth rate 12, UDRE growth rate 16)</td>
</tr>
</tbody>
</table>

9.2.2 FDD specific parameters

9.2.2.a ACK-NACK Repetition Factor

The *ACK-NACK Repetition Factor* IE indicates the number of consecutive repetitions of the ACK and NACK.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACK-NACK Repetition Factor</td>
<td></td>
<td></td>
<td>INTEGER (1,4,...)</td>
<td>Step: 1</td>
</tr>
</tbody>
</table>

9.2.2.b ACK Power Offset

The *ACK Power Offset* IE indicates Power offset used in the UL between the HS-DPCCH slot carrying HARQ ACK information and the associated DPCCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACK Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (0,8,...)</td>
<td>According to mapping in ref. [9] subclause 4.2.1.</td>
</tr>
</tbody>
</table>
9.2.2.A  Active Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence activation. For details see ref. [18].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM Configuration Change CFN</td>
<td>M</td>
<td></td>
<td>CFN 9.2.1.7</td>
<td></td>
</tr>
<tr>
<td>Transmission Gap Pattern Sequence Status</td>
<td></td>
<td>0..&lt;maxT GPS&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TGPS Identifier</td>
<td>M</td>
<td></td>
<td>INTEGER (1..maxTGPS)</td>
<td>If the group is not present, none of the pattern sequences are activated. References an already defined sequence.</td>
</tr>
<tr>
<td>&gt;TGPRC</td>
<td>M</td>
<td></td>
<td>INTEGER (0..511)</td>
<td>The number of transmission gap patterns within the Transmission Gap Pattern Sequence. &quot;0&quot;=Infinity</td>
</tr>
<tr>
<td>&gt;TGCFN</td>
<td>M</td>
<td></td>
<td>CFN 9.2.1.7</td>
<td>Connection Frame Number of the first frame of the first pattern 1 within the Transmission Gap Pattern Sequence.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxTGPS</td>
<td>Maximum number of active pattern sequences. Value 6.</td>
</tr>
</tbody>
</table>

9.2.2.B  Adjustment Period

The Adjustment Period IE defines the period to be used for power balancing.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustment Period</td>
<td></td>
<td></td>
<td>INTEGER (1..256)</td>
<td>Unit: Frames</td>
</tr>
</tbody>
</table>

9.2.2.C  Adjustment Ratio

The Adjustment Ratio IE (Radj) defines the convergence rate used for the associated Adjustment Period.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustment Ratio</td>
<td></td>
<td></td>
<td>INTEGER (0..100)</td>
<td>Unit: None Range: 0..1 Step: 0.01</td>
</tr>
</tbody>
</table>

9.2.2.D  AICH Power

The AICH Power IE indicates a power level (measured as the power per transmitted acquisition indicator when several AIs are transmitted in parallel) relative to the primary CPICH power configured in a cell. If Transmit Diversity is applied to the AICH, the AICH Power IE indicates the power offset between the linear sum of the power for the AICH on all branches and the Primary CPICH power configured in a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AICH Power</td>
<td></td>
<td></td>
<td>INTEGER (-22..+5)</td>
<td>Unit: dB Range: -22 .. +5 dB Step: 1 dB</td>
</tr>
</tbody>
</table>
9.2.2.1 AICH Transmission Timing

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AICH Transmission Timing</td>
<td></td>
<td></td>
<td>ENUMERATED (0, 1)</td>
<td>See parameter AICH_Transmission_Timing in ref. [7].</td>
</tr>
</tbody>
</table>

9.2.2.1A AP Preamble Signature

Void.

9.2.2.1B AP Sub Channel Number

Void.

9.2.2.1Ba Best Cell Portions

_best Cell Portions_ IE indicates the best received cell portions and their SIR values when Cell Portions are defined in the cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best Cell Portions</td>
<td></td>
<td>1..&lt;maxnoofBestCellPortions&gt;</td>
<td>ENUMERATED</td>
<td></td>
</tr>
<tr>
<td>&gt;Cell Portion ID</td>
<td>M</td>
<td></td>
<td>INTEGER (0..63)</td>
<td>According to mapping in [22] and [23]</td>
</tr>
<tr>
<td>&gt;SIR Value</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofBestCellPortions</td>
<td>Maximum number of reported Best Received Cell Portions</td>
</tr>
</tbody>
</table>

9.2.2.1Bb Bundling Mode Indicator

The Bundling Mode Indicator indicates whether the bundling shall be done or shall not be done for Iub.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bundling Mode Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (Bundling, No bundling)</td>
<td>The value “Bundling” is applicable only when E-TTI indicates “2ms”.</td>
</tr>
</tbody>
</table>

9.2.2.1C CD Sub Channel Numbers

Void.

9.2.2.1Ca Cell Portion ID

Cell Portion ID is the unique identifier for a cell portion within a cell. See [4].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Portion ID</td>
<td></td>
<td></td>
<td>INTEGER (0..63,...)</td>
<td></td>
</tr>
</tbody>
</table>
9.2.2.1D Channel Assignment Indication
Void.

9.2.2.2 Chip Offset
The Chip Offset is defined as the radio timing offset inside a radio frame. The Chip offset is used as offset relative to the Primary CPICH timing for the DL DPCH or for the F-DPCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..38399)</td>
<td>Unit: chips</td>
</tr>
</tbody>
</table>

9.2.2.2A Closed Loop Timing Adjustment Mode
Indicates when the phase/amplitude adjustment is performed in the DL in relation to the receipt of the UL feedback command in case of closed loop mode transmit diversity on DPCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closed Loop Timing Adjustment Mode</td>
<td></td>
<td></td>
<td>ENUMERATED (Offset1, Offset2, ...)</td>
<td>According to ref. [10] subclause 7.1: “Offset1” = slot(j+1)mod15 “Offset2” = slot(j+2)mod15</td>
</tr>
</tbody>
</table>

9.2.2.3 Common Channels Capacity Consumption Law
Void.

9.2.2.3A Compressed Mode Deactivation Flag
The Compressed Mode Deactivation Flag indicates whether Compressed Mode shall be deactivated or not in the new RL.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed Mode Deactivation Flag</td>
<td></td>
<td></td>
<td>ENUMERATED (Deactivate, Maintain Active)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.4 Compressed Mode Method
Void.

9.2.2.4A CPCH Allowed Total Rate
Void.

9.2.2.4B CPCH Scrambling Code Number
Void.

9.2.2.4C CPCH UL DPCCH Slot Format
Void.
9.2.2.4Ca CQI Power Offset

The **CQI Power Offset** IE indicates Power offset used in the UL between the HS-DPCCH slots carrying CQI information and the associated DPCCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CQI Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..8,...)</td>
<td>According to mapping in ref. [9] subclause 4.2.1.</td>
</tr>
</tbody>
</table>

9.2.2.4Cb CQI Repetition Factor

The **CQI Repetition Factor** IE indicates the number of consecutive repetitions of the CQI.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CQI Repetition Factor</td>
<td></td>
<td></td>
<td>INTEGER (1..4,...)</td>
<td>Step: 1</td>
</tr>
</tbody>
</table>

9.2.2.4D DCH FDD Information

The **DCH FDD Information** IE provides information for DCHs to be established.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCH FDD Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Payload CRC Presence Indicator</td>
<td>M</td>
<td>9.2.1.49</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL FP Mode</td>
<td>M</td>
<td>9.2.1.66</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWS</td>
<td>M</td>
<td>9.2.1.61</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWE</td>
<td>M</td>
<td>9.2.1.60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DCH Specific Info</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;DCH ID</td>
<td>M</td>
<td>9.2.1.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transport Format Set</td>
<td>M</td>
<td>9.2.1.59</td>
<td>For UL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transport Format Set</td>
<td>M</td>
<td>9.2.1.59</td>
<td>For DL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Allocation/Retention Priority</td>
<td>M</td>
<td>9.2.1.1A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Frame Handling Priority</td>
<td>M</td>
<td>9.2.1.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;QE-Selector</td>
<td>M</td>
<td>9.2.1.50A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Unidirectional DCH Indicator</td>
<td>O</td>
<td>9.2.1.68</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno of DCHs</td>
<td>Maximum number of DCHs for one UE</td>
</tr>
</tbody>
</table>

9.2.2.4E DCHs FDD To Modify

The **DCHs FDD To Modify** IE provides information for DCHs to be modified.
### 9.2.2.4F DCH Indicator For E-DCH-HSDPA Operation

The DCH Indicator For E-DCH-HSDPA Operation parameter indicates whether DCH Information IE should be ignored in the message in which the DCH Indicator For E-DCH-HSDPA Operation IE is included.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCH Indicator For E-DCH-HSDPA Operation</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(DCH not present)</td>
</tr>
</tbody>
</table>

### 9.2.2.4G Transport Bearer Not Requested Indicator

The Transport Bearer Not Requested Indicator parameter indicates that a transport bearer shall not be established or may not to be established for a DCH or an E-DCH MAC-d flow.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Bearer Not Requested Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Transport Bearer shall not be Established, Transport Bearer may not be Established)</td>
</tr>
</tbody>
</table>

### 9.2.2.4H Transport Bearer Not Setup Indicator

The Transport Bearer Not Setup Indicator parameter indicates that a transport bearer will not be established for a DCH or an E-DCH MAC-d flow.
9.2.2.5  D-Field Length
Void.

9.2.2.6  Dedicated Channels Capacity Consumption Law
Void.

9.2.2.7  Diversity Control Field
Void.

9.2.2.8  Diversity Indication
Void.

9.2.2.9  Diversity Mode
Define the diversity mode to be applied.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diversity Mode</td>
<td></td>
<td></td>
<td>ENUMERATED (None, STTD, Closed loop mode 1, Not Used,…)</td>
<td>The Diversity Mode IE shall never be set to &quot;Not Used&quot;. If received it shall be rejected.</td>
</tr>
</tbody>
</table>

9.2.2.10  DL DPCH Slot Format
Indicates the slot format used in DPCH in DL, accordingly to ref. [7].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL DPCH Slot Format</td>
<td></td>
<td></td>
<td>INTEGER (0..16,…)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.10A  DL DPCH Timing Adjustment
The DL DPCH Timing Adjustment indicates that a timing adjustment of the related radio link is required or that an Initial DL DPCH Timing Adjustment has been performed by the Node B. It also indicates whether the timing adjustment consists of a timing advance or a timing delay with respect to the SFN timing. The adjustment always consists of 256 chips.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL DPCH Timing Adjustment</td>
<td></td>
<td></td>
<td>ENUMERATED (timing advance, timing delay)</td>
<td>The size of the timing adjustment is 256 chips.</td>
</tr>
</tbody>
</table>
9.2.2.11 DL frame type
Void.

9.2.2.12 DL or Global Capacity Credit
Void.

9.2.2.12A DL_power_averaging_window_size
The DL_power_averaging_window_size IE defines the window size when Limited Power Increase is used [10].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL_power_averaging_window</td>
<td></td>
<td>INTEGER (1..60)</td>
<td></td>
<td>Unit: inner loop power adjustments Range: 1..60 Step: 1 adjustment</td>
</tr>
</tbody>
</table>

9.2.2.12B DL Power Balancing Information
The DL Power Balancing Information IE provides information for power balancing to be activated in the relevant RL(s).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Adjustment Type</td>
<td>M</td>
<td>9.2.2.27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DL Reference Power</td>
<td>C-Common</td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td>Power on DPCH or on F-DPCH</td>
</tr>
<tr>
<td>DL Reference Power</td>
<td>C-Individual</td>
<td>1..&lt;maxno ofRLs&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RL ID</td>
<td>M</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Reference Power</td>
<td>M</td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td>Power on DPCH or on F-DPCH</td>
</tr>
<tr>
<td>Max Adjustment Step</td>
<td>C-CommonO rIndividual</td>
<td>9.2.2.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adjustment Period</td>
<td>C-CommonO rIndividual</td>
<td>9.2.2.B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adjustment Ratio</td>
<td>C-CommonO rIndividual</td>
<td>9.2.2.C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common</td>
<td>The IE shall be present if the Power Adjustment Type IE is set to &quot;Common&quot;.</td>
</tr>
<tr>
<td>Individual</td>
<td>The IE shall be present if the Power Adjustment Type IE is set to &quot;Individual&quot;.</td>
</tr>
<tr>
<td>CommonOrIndividual</td>
<td>The IE shall be present if the Power Adjustment Type IE is set to &quot;Common&quot; or &quot;Individual&quot;.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofRLs</td>
<td>Maximum number of Radio Links for a UE</td>
</tr>
</tbody>
</table>

9.2.2.12C DL Power Balancing Activation Indicator
The DL Power Balancing Activation Indicator IE indicates that the power balancing is activated in the RL.
### 9.2.2.12D DL Power Balancing Updated Indicator

The **DL Power Balancing Updated Indicator** IE indicates that the power balancing related parameters is updated in the RL.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL Power Balancing Updated Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (DL Power Balancing Updated)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.13 DL Scrambling Code

DL scrambling code to be used by the RL. One cell may have multiple DL scrambling codes available.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
</table>
| DL Scrambling Code             |          |       | INTEGER (0..15)       | "0" = Primary scrambling code of the cell  
                                                                                  "1".."15" = Secondary scrambling code |

### 9.2.2.13A DL TPC Pattern 01 Count

The **DL TPC Pattern 01 Count** IE contains the value of the parameter n, which is used for determining the DL TPC pattern on Radio Links marked with "first RLS" by the **First RLS indicator** IE before UL synchronisation is achieved.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL TPC Pattern 01 Count</td>
<td></td>
<td></td>
<td>INTEGER(0..30,...)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.13B DSCH FDD Information

Void.

### 9.2.2.13C DPC Mode

The **DPC Mode** IE indicates the DPC mode to be applied [10].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
</table>
| DPC Mode      |          |       | ENUMERATED (Mode0, Mode1, ...)             | "Mode0": The Node B shall estimate the UE transmitted TPC command and update the DL power in every slot  
                                                                                  "Mode1": The Node B shall estimate the UE transmitted TPC command over three slots and shall update the DL power in every three slots |
9.2.2.13D  DSCH FDD Common Information

Void.

9.2.2.13Da  E-DCH FDD Information

The E-DCH *FDD Information* IE provides information for an E-DCH to be established.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d Flows Information</td>
<td>M</td>
<td>9.2.2.13M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HARQ Process Allocation For 2ms Scheduled Transmission Grant</td>
<td>O</td>
<td></td>
<td>HARQ Process Allocation for 2ms TTI 9.2.2.13Dn</td>
<td>If this IE is not included, scheduled transmission in all HARQ processes is allowed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Maximum Bitrate</td>
<td>O</td>
<td>9.2.2.13T</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Processing Overload Level</td>
<td>O</td>
<td>9.2.1.79</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Reference Power Offset</td>
<td>O</td>
<td>9.2.2.13Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Power Offset for Scheduling Info</td>
<td>O</td>
<td>9.2.1.85</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SixteenQAM UL Operation Indicator</td>
<td>O</td>
<td>9.2.2.88A</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-AGCH Table Choice</td>
<td>C- SixteenQA M UL Operation</td>
<td>9.2.2.100</td>
<td>Yes</td>
<td>If the SixteenQAM UL operation is not configured for this UE, Table 16B for E-AGCH in [8] shall be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SixteenQAM UL Operation</td>
<td>The IE shall be present if the <em>SixteenQAM UL Operation Indicator</em> IE is set to 'Activate'.</td>
</tr>
</tbody>
</table>

9.2.2.13DA  E-DCH FDD Update Information

The *E-DCH FDD Update Information* IE provides information for E-DCH to be updated. At least one IE shall be present.
### E-DCH MAC-d Flow Specific Update Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d Flow Specific Update Information</td>
<td>0..&lt;max noofED CHMAC dFlows&gt;</td>
<td></td>
<td></td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.74</td>
<td></td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>&gt;HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant</td>
<td>O</td>
<td>HARQ Process Allocation for 2ms TTI 9.2.2.13Dn</td>
<td>--</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HARQ Process Allocation For 2ms Scheduled Transmission Grant</td>
<td>O</td>
<td>HARQ Process Allocation for 2ms TTI 9.2.2.13Dn</td>
<td>--</td>
<td>--</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### E-DCH DL Control Channel Change Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH DL Control Channel Change Information</td>
<td>0..&lt;max noofED CHRLs &gt;</td>
<td></td>
<td></td>
<td>GLOBAL</td>
<td>Ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH RL ID</td>
<td>M</td>
<td>RL ID 9.2.1.53</td>
<td></td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

### Range bound

<table>
<thead>
<tr>
<th>Explanation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofEDCHMACdFlows</td>
<td>Maximum number of MAC-d flows.</td>
</tr>
<tr>
<td>maxnoofEDCHRLs</td>
<td>Maximum number of E-DCH RLs for one UE</td>
</tr>
</tbody>
</table>

### 9.2.2.13Db E-DCH FDD Information Response

The **E-DCH FDD Information Response** IE provides information for E-DCH MAC-d flows that have been established or modified. It also provides additional E-DCH information determined within the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d Flow Specific Information Response</td>
<td>0..&lt;max noofED CHMAC dFlows&gt;</td>
<td></td>
<td></td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.74</td>
<td></td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td></td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td></td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>&gt;HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant</td>
<td>O</td>
<td>HARQ Process Allocation for 2ms TTI 9.2.2.13Dn</td>
<td>--</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Bearer Not Setup Indicator</td>
<td>O</td>
<td>9.2.2.24H</td>
<td>YES</td>
<td>ignore</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>HARQ Process Allocation For 2ms Scheduled Transmission Grant</td>
<td>O</td>
<td>HARQ Process Allocation for 2ms TTI 9.2.2.13Dn</td>
<td>--</td>
<td>--</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Range bound

<table>
<thead>
<tr>
<th>Explanation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofEDCHMACdFlows</td>
<td>Maximum number of MAC-d flows.</td>
</tr>
</tbody>
</table>

### 9.2.2.13Dc E-DCH FDD DL Control Channel Information

The **E-DCH FDD DL Control Channel Information** IE provides information for E-DCH specific DL Control Channels to be provided to UE via RRC signalling.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-AGCH And E-RGCH/E-HICH FDD Scrambling Code</td>
<td>O</td>
<td></td>
<td>DL Scrambling Code</td>
<td>Scrambling code on which E-AGCH, E-RGCH and E-HICH are transmitted.</td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>E-AGCH Channelisation Code</td>
<td>O</td>
<td></td>
<td>FDD DL Channelisation Code Number</td>
<td></td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>Primary E-RNTI</td>
<td>O</td>
<td></td>
<td>E-RNTI</td>
<td></td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>Secondary E-RNTI</td>
<td>O</td>
<td></td>
<td>E-RNTI</td>
<td></td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>E-RGCH/E-HICH Channelisation Code</td>
<td>O</td>
<td></td>
<td>FDD DL Channelisation Code Number</td>
<td></td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>E-RGCH Signature Sequence</td>
<td>O</td>
<td></td>
<td>INTEGER (0..maxnoofSigSeqE-RGHICH - 1)</td>
<td></td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>E-HICH Signature Sequence</td>
<td>O</td>
<td></td>
<td>INTEGER (0..maxnoofSigSeqE-RGHICH - 1)</td>
<td></td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>Serving Grant Value</td>
<td>O</td>
<td></td>
<td>INTEGER (0..37,38)</td>
<td>(0..37) indicates E-DCH serving grant index as defined in [32]; index 38 means zero grant</td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>Primary/Secondary Grant Selector</td>
<td>O</td>
<td></td>
<td>ENUMERATED (Primary, Secondary)</td>
<td>Indicates whether the Serving Grant Value is granted with a primary E-RNTI or a secondary E-RNTI</td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>E-RGCH Release Indicator</td>
<td>O</td>
<td>9.2.2.13lc</td>
<td></td>
<td></td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>Default Serving Grant in DTX Cycle 2</td>
<td>O</td>
<td></td>
<td>INTEGER (0..37,38)</td>
<td>Serving Grant value to be used in DTX-Cycle-2. (0..37) indicates E-DCH serving grant index as defined in [32]; index 38 means zero grant</td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofSigSeqE-RGHICH</td>
<td>Maximum number of Signature Sequences for E-RGCH/E-HICH.</td>
</tr>
</tbody>
</table>
9.2.2.13De  E-DCH RL Indication
Indicates whether a RL is an E-DCH RL.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH RL Indication</td>
<td></td>
<td></td>
<td>ENUMERATED(E-DCH, non E-DCH)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.13Df  E-DCH FDD Information to Modify
The *E-DCH FDD Information to Modify* IE is used for the modification of an E-DCH.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d Flow Specific Information</td>
<td></td>
<td>0..&lt;maxno of EDCCH MACdFlows &gt;</td>
<td>9.2.1.74</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.1A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Allocation/Retention Priority</td>
<td>O</td>
<td>9.2.1.62A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Bearer Request Indicator</td>
<td>M</td>
<td>9.2.1.58A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Number Of Retransmissions For E-DCH</td>
<td>O</td>
<td>9.2.1.81</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH HARQ Power Offset FDD</td>
<td>O</td>
<td>9.2.2.13Dk</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow Multiplexing List</td>
<td>O</td>
<td>9.2.1.69</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CHOICE E-DCH Grant Type</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH Non-Scheduled Transmission Grant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission</td>
<td>M</td>
<td>9.2.2.13Dm</td>
<td></td>
<td>If the Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission IE is present, this IE shall be ignored. When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the maximum number of bits per MAC-i PDU.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant</td>
<td>O</td>
<td>HARQ Process Allocation for 2ms TTI 9.2.2.13Dn</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission</td>
<td>O</td>
<td>9.2.2.13Dr</td>
<td></td>
<td>When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the extended maximum number of bits per MAC-i PDU.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;&gt;&gt;E-DCH Scheduled Transmission Grant</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Condition</td>
<td>Explanation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SixteenQAM UL Operation</td>
<td>The IE shall be present if the SixteenQAM UL Operation Indicator IE is set to 'Activate'.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofEDCHMACdFlows</td>
<td>Maximum number of E-DCH MAC-d flows.</td>
</tr>
<tr>
<td>maxnooflogicalchannels</td>
<td>Maximum number of logical channels</td>
</tr>
<tr>
<td>maxnoofEDCHRLs</td>
<td>Maximum number of E-DCH RLs for one UE</td>
</tr>
</tbody>
</table>

### 9.2.2.13Dh  E-DCH Transport Format Combination Set Information (E-TFCS Information)

Whereas the related Transport Block sizes are standardised in [32] this IE gives details on the referenced Transport Block Size Table, the E-DCH Minimum Set E-TFCI, the Reference E-TFCIs and configuration parameters used for the calculation of the gain factors $\beta_c$ and $\beta_o$ defined in [10].
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-TFCI Table Index</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..1, ..., 2..7)</td>
<td>Indicates which standardised E-TFCS Transport Block Size Table shall be used. The related tables are specified in [32].</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>E-DCH Minimum Set E-TFCI</td>
<td>O</td>
<td>INTEGER</td>
<td>(0..127)</td>
<td>For the concept of “E-DCH Minimum Set of TFCs” see [32] and [18].</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Reference E-TFCI Information</td>
<td></td>
<td></td>
<td>1..&lt;maxnoofRefETFCIs&gt;</td>
<td></td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>&gt;Reference E-TFCI</td>
<td>M</td>
<td>INTEGER</td>
<td>(0..127)</td>
<td></td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>&gt;Reference E-TFCI Power Offset</td>
<td>M</td>
<td>9.2.2.13Dp</td>
<td></td>
<td>If the Extended Reference E-TFCI Power Offset IE is present, this IE shall be ignored</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>&gt;Extended Reference E-TFCI Power Offset</td>
<td>O</td>
<td>9.2.2.13Dq</td>
<td></td>
<td>YES reject</td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>E-TFCI Boost Information</td>
<td>O</td>
<td>9.2.2.88B</td>
<td></td>
<td>YES reject</td>
<td></td>
<td>--</td>
</tr>
<tr>
<td>E-DPDCH Power Interpolation</td>
<td>O</td>
<td>BOOLEAN</td>
<td></td>
<td>True means that the E-DPDCH power interpolation formula shall be applied, False means that the E-DPDCH power extrapolation formula shall be applied for the computation of the gain factor ( \beta_{ed} ) according to [10]</td>
<td>YES reject</td>
<td>--</td>
</tr>
</tbody>
</table>

**Range Bound** | **Explanation**
--- | ---
maxnoofRefETFCIs | Maximum number of signalled reference E-TFCIs

9.2.2.13Di E-TTI

The E-TTI parameter indicates the Transmission Time Interval for E-DPCH operation.
### 9.2.2.13Dj  E-DPCCH Power Offset

The E-DPCCH Power Offset is used to calculate the E-DPCCH gain factor $\beta_{ec}$ as defined in [10], whereas $\beta_{ec}$ is related to the power difference between DPCCH and E-DPCCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DPCCH Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..8)</td>
<td>According to mapping in ref. [9] subclause 4.2.1.3.</td>
</tr>
</tbody>
</table>

### 9.2.2.13Dk  E-DCH HARQ Power Offset FDD

The E-DCH HARQ Power Offset FDD is used to calculate the unquantised gain factor for an E-TFC ($\beta_{ed,j,uq}$) as defined in [10].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH HARQ Power Offset FDD</td>
<td></td>
<td></td>
<td>INTEGER (0..6)</td>
<td>According to mapping in ref. [9] subclause 4.2.1.3.</td>
</tr>
</tbody>
</table>

### 9.2.2.13DI  E-DCH MAC-d Flow Multiplexing List

Void.

### 9.2.2.13Dm  Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission

The Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission indicates the number of bits allowed to be included in a MAC-e (or MAC-i) PDU per E-DCH MAC-d flow configured for non-scheduled transmissions. If the range of the Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission IE is insufficient to represent the value to be sent to the Node B, the Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission IE shall be used to represent the value to be sent to the Node B, see section 9.2.2.13Dr.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission</td>
<td></td>
<td></td>
<td>INTEGER (1..19982)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.13Dn  HARQ Process Allocation For 2ms TTI

The HARQ Process Allocation for 2ms TTI indicates those HARQ processes that are allowed. MAC-d PDU’s for a MAC-d flow are only allowed to be transmitted in those processes for which the bit is set to "1".

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARQ Process Allocation For 2ms TTI</td>
<td></td>
<td></td>
<td>BIT STRING (8)</td>
<td>The first Bit corresponds to HARQ process ID = 0, the second bit corresponds to HARQ process ID = 1, etc. The HARQ process ID for 2ms TTI is defined in [32], chapter 11.8.1.3.</td>
</tr>
</tbody>
</table>
9.2.2.13Dp  Reference E-TFCI Power Offset

The Reference E-TFCI Power Offset is used to calculate the reference E-TFC gain factor $\beta_{\text{d,ref}}$ as defined in [10]. If the range of the Reference E-TFCI Power Offset IE is insufficient to represent the value to be sent to the Node B, the Extended Reference E-TFCI Power Offset IE shall be used to represent the value to be sent to the Node B, see section 9.2.2.13Dq.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference E-TFCI Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..29)</td>
<td>According to mapping in ref. [9] subclause 4.2.1.3</td>
</tr>
</tbody>
</table>

9.2.2.13Dq  Extended Reference E-TFCI Power Offset

The Extended Reference E-TFCI Power Offset IE shall be used if the range of the Reference E-TFCI Power Offset IE (see section 9.2.2.13Dp) is insufficient to represent the value of the Reference E-TFCI Power Offset to be sent to the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended Reference E-TFCI Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (30..31, ..., 29)</td>
<td>According to mapping in ref. [9] subclause 4.2.1.3</td>
</tr>
</tbody>
</table>

9.2.2.13Dr  Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission

The Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission IE shall be used if the range of the Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission IE (see section 9.2.2.13Dm) is insufficient to represent the value of the Maximum Number of Bits per MAC-e (or MAC-i) PDU for Non-scheduled Transmission to be sent to the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission</td>
<td></td>
<td></td>
<td>INTEGER (19983..22978, ...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.13E  Enhanced DSCH PC

Void.

9.2.2.13F  Enhanced DSCH PC Counter

Void.

9.2.2.13G  Enhanced DSCH PC Indicator

Void.

9.2.2.13H  Enhanced DSCH PC Wnd

Void.

9.2.2.13I  Enhanced DSCH Power Offset

Void.
9.2.2.13la  E-RGCH/E-HICH Code Information

This parameter defines the codes which will be assigned for E-RGCH and E-HICH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE replaceremove</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;&gt;E-RGCH/E-HICH Code</td>
<td>1..&lt;Maxno ofE-RGCH EHICHs&gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;&gt;Code Number</td>
<td>M</td>
<td>FDD DL Channelisation Code Number 9.2.2.14</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**

| MaxnoofERGCHEHICHs | Maximum number of E-RGCH/E-HICH channelisation codes for one cell. |

9.2.2.13lb  E-AGCH Code Information

This parameter defines the codes which will be assigned for E-AGCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE replaceremove</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;&gt;E-AGCH Code</td>
<td>1..&lt;Maxno ofEAGCHs &gt;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;&gt;Code Number</td>
<td>M</td>
<td>FDD DL Channelisation Code Number 9.2.2.14</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**

| MaxnoofEAGCHs | Maximum number of E-AGCH channelisation codes for one cell. |

9.2.2.13lc  E-RGCH Release Indicator

Indicates the E-RGCH is released.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-RGCH Release Indicator</td>
<td></td>
<td></td>
<td></td>
<td>ENUMERATED (E-RGCH released)</td>
</tr>
</tbody>
</table>

9.2.2.13ld  E-AGCH Power Offset

The **E-AGCH Power Offset** IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the **E-AGCH Power Offset** IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.
9.2.2.13Ie  E-RGCH Power Offset

The E-RGCH Power Offset IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the E-RGCH Power Offset IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-RGCH Power Offset</td>
<td></td>
<td>(0…255,...)</td>
<td>INTEGER</td>
<td>Unit: dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Range: -32 .. +31.75 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Step: 0.25 dB</td>
</tr>
</tbody>
</table>

9.2.2.13If  E-HICH Power Offset

The E-HICH Power Offset IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when F-DPCH is configured. When F-DPCH is configured, the E-HICH Power Offset IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-HICH Power Offset</td>
<td></td>
<td>(0…255,...)</td>
<td>INTEGER</td>
<td>Unit: dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Range: -32 .. +31.75 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Step: 0.25 dB</td>
</tr>
</tbody>
</table>

9.2.2.13Ig  E-RGCH 2-Index-Step Threshold

The E-RGCH 2-index-step-threshold IE is used to determine the Serving Grant.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-RGCH 2-Index-Step</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td>Refers to an index in the “SG-Table” (see [32]).</td>
</tr>
<tr>
<td>Threshold</td>
<td></td>
<td>(0..37)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.13Ih  E-RGCH 3-Index-Step Threshold

The E-RGCH 3-index-step-threshold IE is used to determine the Serving Grant.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-RGCH 3-Index-Step</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td>Refers to an index in the “SG-Table” (see [32]).</td>
</tr>
<tr>
<td>Threshold</td>
<td></td>
<td>(0..37)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.13J  E-DCH Capability

Void

9.2.2.13Ja  E-DCH Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the RL/RLS situation and the number of uplink E-DPDCHs and their spreading factors. The reference spreading factor and number of E-DPDCH is signalled using the Maximum Set of E-DPDCHs IE.
This capacity consumption law indicates the consumption law to be used with the following procedures:

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration
- Radio Link Deletion

For the Radio Link Setup and Radio Link Addition procedures, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall credited to the Capacity Credit for the Radio Link Deletion procedure. For the Radio Link Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited when this difference is negative).

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the DL cost shall be applied to the DL or Global Capacity Credit and the UL Cost shall be applied to the UL Capacity Credit. If it is modelled as shared resources, both the DL costs and the UL costs shall be applied to the DL or Global Capacity Credit.

For a Radio Link creating a Radio Link Set (first RL of a RLS), the cost for the RL (cost 2) and RLS (cost 1) shall be taken into account. When adding a Radio Link to a Radio Link Set, only the RL cost (cost 2) shall be taken into account.

In the case where multiple Radio Links are established in one procedure, for every created Radio Link Set, the first Radio Link is always the Radio Link with the lowest repetition number.

The costs given in the consumption law are the costs per channelization code/no of E-DPDCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF Allocation Law</td>
<td>1..&lt;maxno ofCombEDPDCH&gt;</td>
<td></td>
<td></td>
<td>The cost of SF allocation: the first instance corresponds to v2xN2plus2xN4, the second to v2xN2, the third to v2xN4, the fourth to vN4, the fifth to vN8, the sixth to vN16, the seventh to vN32, the eighth to vN64, the ninth to vN128, the tenth to vN256 and the eleventh to v2xM2plus2xM4.</td>
</tr>
<tr>
<td>&gt;UL Cost 1</td>
<td>M</td>
<td>INTEGER (0..65535)</td>
<td>This is the cost of a RLS</td>
<td></td>
</tr>
<tr>
<td>&gt;UL Cost 2</td>
<td>M</td>
<td>INTEGER (0..65535)</td>
<td>This is the cost of a RL</td>
<td></td>
</tr>
<tr>
<td>DL Cost 1</td>
<td>O</td>
<td>INTEGER (0..65535)</td>
<td>This is the cost of a RLS. If not present, zero cost shall be applied.</td>
<td></td>
</tr>
<tr>
<td>DL Cost 2</td>
<td>O</td>
<td>INTEGER (0..65535)</td>
<td>This is the cost of a RL. If not present, zero cost shall be applied.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno of CombEDPDCH</td>
<td>Maximum number of Configurations in the Maximum Set of E-DPDCH IE</td>
</tr>
</tbody>
</table>

9.2.2.13K E-DCH Logical Channel Information

Void

9.2.2.13L E-DCH Logical Channel To Modify

Void
9.2.2.13M  E-DCH MAC-d Flows Information

The *E-DCH MAC-d Flows Information* IE is used for the establishment of E-DCH MAC-d flows.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d Flow Specific Information</td>
<td></td>
<td>1..&lt;maxno ofEDCHMACdFlows&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.74</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Allocation/Retention Priority</td>
<td>M</td>
<td>9.2.1.1A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Payload CRC Presence Indicator</td>
<td>M</td>
<td>9.2.1.49</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Number Of Retransmissions For E-DCH</td>
<td>M</td>
<td>9.2.1.81</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH HARQ Power Offset FDD</td>
<td>M</td>
<td>9.2.2.13Dk</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow Multiplexing List</td>
<td>O</td>
<td>9.2.1.69</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CHOICE E-DCH Grant Type</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;E-DCH Non-Scheduled Transmission Grant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission</td>
<td>M</td>
<td>9.2.2.13Dm</td>
<td>If the Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission IE is present, this IE shall be ignored. When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the maximum number of bits per MAC-i PDU.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HARQ Process Allocation For 2ms Non-Scheduled Transmission Grant</td>
<td>O</td>
<td>HARQ Process Allocation for 2ms TTI 9.2.2.13Dn</td>
<td>If this IE is not included, transmission in all HARQ processes is allowed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Extended Maximum Number of Bits per MAC-e PDU for Non-scheduled Transmission</td>
<td>O</td>
<td>9.2.2.13Dr</td>
<td>When Maximum MAC-d PDU Size Extended IE is configured for an E-DCH Logical Channel this IE indicates the extended maximum number of bits per MAC-i PDU.</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9.2.2.13N E-DCH MAC-d Flows To Delete
Void

9.2.2.13O E-DCH MAC-d Flow ID
Void

9.2.2.13P E-RNTI
Void

9.2.2.13Q E-DCH DDI Value
Void

9.2.2.13R E-DCH Provided Bit Rate Value
Void

9.2.2.13S E-DCH Provided Bit Rate Value Information
Void

9.2.2.13T E-DCH Maximum Bitrate
The E-DCH Maximum Bitrate parameter indicates the Maximum Bitrate for an E-DCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Maximum Bitrate</td>
<td></td>
<td>INTEGER (0..5742,…, 5743..11498)</td>
<td>Bitrate on transport block level. Unit is kbits per second.</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.13U E-DCH Processing Overload Level
Void

9.2.2.13V E-DCH TTI Capability
This parameter defines the E-DCH TTI Capability for a Local Cell.
### 9.2.2.13W  E-DCH SF Capability

This parameter defines the E-DCH Capability for a Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH SF Capability</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>Min SF supported by the cell in E-DCH</td>
</tr>
<tr>
<td>(sf64, sf32, sf16, sf8, sf4, 2sf4, 2sf2, 2sf2and2sf4,...)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.13X  E-DCH HARQ Combining Capability

This parameter defines the E-DCH HARQ Combining capability for a Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH HARQ Combining Capability</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td></td>
</tr>
<tr>
<td>(IR Combining Capable, Chase Combining Capable, IR and Chase Combining Capable)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.13Y  E-DCH Reference Power Offset

The E-DCH Reference Power Offset is used to estimate the E-DPDCH power from E-TFCI without decoding MAC-e PDUs.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Reference Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..6)</td>
<td>According to mapping in ref. [9] subclause 4.2.1.3.</td>
</tr>
</tbody>
</table>

### 9.2.2.13Z  E-DCH Power Offset for Scheduling Info

Void

### 9.2.2.14  FDD DL Channelisation Code Number

The DL Channelisation Code Number indicates the DL Channelisation Code number for a specific DL physical channel.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDD DL Channelisation Code Number</td>
<td></td>
<td></td>
<td>INTEGER (0..511)</td>
<td>According to the mapping in [9]. The maximum value is equal to the DL spreading factor –1.</td>
</tr>
</tbody>
</table>
9.2.2.14A FDD DL Code Information

The **FDD DL Code Information** IE provides DL Code information for the RL.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDD DL Code Information</td>
<td></td>
<td>1..&lt;maxno ofCodes&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Scrambling Code</td>
<td>M</td>
<td>9.2.2.13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;FDD DL Channelisation Code Number</td>
<td>M</td>
<td>9.2.2.14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transmission Gap Pattern Sequence Code Information</td>
<td>O</td>
<td>9.2.2.53B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofCodes</td>
<td>Maximum number of DL code information</td>
</tr>
</tbody>
</table>

9.2.2.14B FDD S-CCPCH Frame Offset

The **FDD S-CCPCH Frame Offset** IE represents a frame offset between the concerned S-CCPCH’s CFN (Connection Frame Number) relatively to the P-CCPCH’s SFN (System Frame Number) of the respective cell. The **FDD S-CCPCH Frame Offset** IE shall be the constant difference between the S-CCPCH’s CFN and the least significant 8 bits of the SFN (System Frame Number) on Uu.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDD S-CCPCH Frame Offset</td>
<td></td>
<td>ENUMERATED (1, 2, 4,...)</td>
<td></td>
<td>Offset in frames (corresponding to 10msec, 20msec or 40msec offset in time)</td>
</tr>
</tbody>
</table>

9.2.2.15 FDD SCCPCH Offset

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDD SCCPCH Offset</td>
<td></td>
<td>INTEGER (0..149)</td>
<td>Unit: chip</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range: 0..38144 chips</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Step: 256 chips</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>See ref. [7]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.16 FDD TPC DL Step Size

This parameter indicates step size for the DL power adjustment.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDD TPC Downlink Step Size</td>
<td></td>
<td>ENUMERATED (0.5, 1, 1.5, 2,...)</td>
<td>Unit: dB</td>
<td></td>
</tr>
</tbody>
</table>
9.2.2.16a F-DPCH Capability

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-DPCH Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (F-DPCH Capable, F-DPCH Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.16A First RLS Indicator

The First RLS Indicator IE indicates if a specific Radio Link and all Radio Links which are part of the same Radio Link Set, shall be considered as the first radio links established towards the UE or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>First RLS Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (First RLS, Not First RLS, ...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.17 Gap Period

Void.

9.2.2.18 Gap Position Mode

Void.

9.2.2.18a HARQ Preamble Mode

The HARQ Preamble Mode IE is used as described as in ref [10].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARQ Preamble Mode</td>
<td></td>
<td></td>
<td>ENUMERATED (mode0, mode1)</td>
<td>&quot;mode0&quot; means HARQ Preamble Mode =0 &quot;mode1&quot; means HARQ Preamble Mode =1</td>
</tr>
</tbody>
</table>

9.2.2.18b HARQ Preamble Mode Activation Indicator

The HARQ Preamble Activation Indicator indicates if the configured HARQ Preamble Mode has been activated in the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARQ Preamble Mode</td>
<td></td>
<td></td>
<td>ENUMERATED(HARQ Preamble Mode Activated)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.18ba HARQ Info for E-DCH

The E-DCH HARQ Info is used to indicate the use of redundancy version (RV) for the EDCH HARQ transmissions.
9.2.2.18c  Logical channel ID

Void

9.2.2.18A  Limited Power Increase

The parameter is used for a more efficient use of the inner loop DL power control for non real time data.

If the limited power increase is used, the Node B shall use the limited power increase algorithm as specified in [10], subclause 5.2.

9.2.2.18B  Inner Loop DL PC Status

The Inner Loop DL PC Status IE indicates whether inner loop DL control shall be active or inactive for all radio links associated with the context identified by the Node B Communication Context Id IE.

9.2.2.18C  IPDL FDD Parameters

The IPDL FDD Parameters IE provides information about IPDL to be applied for FDD when activated.

9.2.2.18Ca  HS-DSCH configured indicator

The HS-DSCH Configured Indicator IE indicates the configuration of HS-DSCH for the UE. The HS-DSCH Configured Indicator IE shall be used for the configuration of the E-DPDCH IQ branch mapping [9].
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE type and reference</th>
<th>Semantics description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH Configured Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (HS-DSCH configured, HS-DSCH not configured)</td>
<td>Indicator of the HS-DSCH for configuration of the E-DPDCCHs IQ branch mapping [9].</td>
</tr>
</tbody>
</table>

### 9.2.2.18D HS-DSCH FDD Information

The *HS-DSCH FDD Information* IE is used for initial addition of HS-DSCH information to a Node B Communication Context.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH MAC-d Flows Information</td>
<td>M</td>
<td>9.2.1.311A</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UE Capabilities Information</td>
<td>f</td>
<td></td>
<td></td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Physical Layer Category</td>
<td>M</td>
<td>9.2.1.311a</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;1.28 Mcps TDD Uplink Physical Channel Capability</td>
<td>O</td>
<td>9.2.3.5Gc</td>
<td>Not to be used. YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Number of Supported Carriers</td>
<td>O</td>
<td>ENUMERA TED</td>
<td>Not to be used. YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Multi-carrier HS-DSCH Physical Layer Category</td>
<td>O</td>
<td>9.2.1.311a</td>
<td>Not to be used. YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC-hs Reordering Buffer Size for RLC-UM</td>
<td>M</td>
<td>9.2.1.38Ab</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQI Feedback Cycle k</td>
<td>M</td>
<td>9.2.2.21B</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQI Repetition Factor</td>
<td>C-CQICyclek</td>
<td>9.2.2.4Cb</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACK-NACK Repetition Factor</td>
<td>M</td>
<td>9.2.2.a</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQI Power Offset</td>
<td>M</td>
<td>9.2.2.4Ca</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACK Power Offset</td>
<td>M</td>
<td>9.2.2.b</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NACK Power Offset</td>
<td>M</td>
<td>9.2.2.23a</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-SCCH Power Offset</td>
<td>O</td>
<td>9.2.2.18I</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement Power Offset</td>
<td>O</td>
<td>9.2.2.21C</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HARQ Preamble Mode</td>
<td>O</td>
<td>9.2.2.18a</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMO Activation Indicator</td>
<td>O</td>
<td>9.2.1.119</td>
<td>YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH MAC-d PDU Size Format</td>
<td>O</td>
<td>9.2.1.311D</td>
<td>If not present, &quot;Indexed MAC-d PDU Size&quot; shall be used. YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sixtyfour QAM Usage Allowed Indicator</td>
<td>O</td>
<td>9.2.2.74A</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UE with enhanced HS-SCCH support indicator</td>
<td>O</td>
<td>NULL</td>
<td>UE supports enhanced HS-SCCH functionality: - UE supports different HS-SCCH in consecutive TTIs and - in HS-SCCH-less operation mode the UE supports HS-SCCH orders</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>Enhanced HS Serving CC Abort</td>
<td>O</td>
<td>ENUMERA TED (Abort Enhanced HS Serving CC, …)</td>
<td>Shall be ignored in Radio Link Setup and Radio Link Addition procedures. YES</td>
<td>reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UE Support Indicator</td>
<td>O</td>
<td>9.2.2.117</td>
<td>YES</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Extension

| Single Stream MIMO Activation Indicator | O | 9.2.2.123 | YES | reject |

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CQICyclek</td>
<td>The IE shall be present if the CQI Feedback Cycle k IE is set to a value greater than 0.</td>
</tr>
</tbody>
</table>

9.2.2.18Da HS-DSCH FDD Secondary Serving Information

The HS-DSCH FDD Secondary Serving Information IE is used for initial addition of Secondary Serving HS-DSCH information to a Node B Communication Context and defines the cell specific parameters for the secondary serving HS-DSCH Radio Link.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SCCH Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.2.18I</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Measurement Power Offset</td>
<td>M</td>
<td></td>
<td>9.2.2.21C</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Sixtyfour QAM Usage Allowed Indicator</td>
<td>O</td>
<td></td>
<td>9.2.2.74A</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH-RNTI</td>
<td>M</td>
<td></td>
<td>9.2.1.31J</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>MIMO Activation Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.119</td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>Single Stream MIMO Activation Indicator</td>
<td>O</td>
<td></td>
<td>9.2.2.123</td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>Diversity Mode</td>
<td>O</td>
<td></td>
<td>9.2.2.9</td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>Transmit Diversity Indicator</td>
<td>O</td>
<td></td>
<td>9.2.2.53</td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
</tbody>
</table>

9.2.2.18E HS-DSCH FDD Information Response

The HS-DSCH Information Response provides information for HS-DSCH that have been established or modified. It also provides additional HS-DSCH information determined within the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH MAC-d Flow Specific Information Response</td>
<td></td>
<td></td>
<td>0..&lt;maxno ofMACdFlows&gt;</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH MAC-d Flow ID</td>
<td>M</td>
<td></td>
<td>9.2.1.31I</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td></td>
<td>9.2.1.4</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td></td>
<td>9.2.1.63</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Initial Capacity Allocation</td>
<td>O</td>
<td></td>
<td>9.2.1.31Ha</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>HS-SCCH Specific Information Response</td>
<td></td>
<td></td>
<td>0..&lt;maxno ofHSSCCHcodes&gt;</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&gt;Code Number</td>
<td>M</td>
<td></td>
<td>INTEGER (0..127)</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>HARQ Memory Partitioning</td>
<td>O</td>
<td></td>
<td>9.2.1.102</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>HARQ Preamble Mode Activation Indicator</td>
<td>O</td>
<td></td>
<td>9.2.2.18b</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>MIMO N/M Ratio</td>
<td>O</td>
<td></td>
<td>9.2.2.96</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>SixtyfourQAM DL Usage Indicator</td>
<td>O</td>
<td></td>
<td>9.2.2.74B</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>HS-DSCH TB Size Table Indicator</td>
<td>O</td>
<td></td>
<td>9.2.2.18Ee</td>
<td></td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>
### 9.2.2.18EA  HS-DSCH FDD Secondary Serving Information Response

The HS-DSCH Secondary Serving Information Response provides information for Secondary Serving HS-DSCH that have been established or modified. It also provides additional HS-DSCH information determined within the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SCCH Specific Secondary Serving Information Response</td>
<td>O..&lt;maxnoofHSSCCHcodes&gt;</td>
<td>0..&lt;maxnoofHSSCCHcodes&gt;</td>
<td>INTEGRER (0..127)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code Number</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SixtyfourQAM DL Usage Indicator</td>
<td>O</td>
<td>9.2.2.74B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH TB Size Table Indicator</td>
<td>O</td>
<td>9.2.2.18Ee</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMO N/M Ratio</td>
<td>O</td>
<td>9.2.2.96</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofHSSCCHcodes</td>
<td>Maximum number of HS-SCCH codes</td>
</tr>
</tbody>
</table>

### 9.2.2.18EB  HS-DSCH FDD Secondary Serving Information To Modify

The **HS-DSCH FDD Secondary Serving Information To Modify** IE is used for modification of Secondary Serving HS-DSCH information in a Node B Communication Context.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SCCH Power Offset</td>
<td>O</td>
<td>9.2.2.18I</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Measurement Power Offset</td>
<td>O</td>
<td>9.2.2.21C</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>HS-SCCH Code Change Grant</td>
<td>O</td>
<td>9.2.1.31L</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Sixtyfour QAM Usage Allowed Indicator</td>
<td>O</td>
<td>9.2.2.74A</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>MIMO Mode Indicator</td>
<td>O</td>
<td>9.2.1.120</td>
<td>YES reject</td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Single Stream MIMO Mode Indicator</td>
<td>O</td>
<td>9.2.2.124</td>
<td>YES reject</td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Diversity Mode</td>
<td>O</td>
<td>9.2.2.9</td>
<td>If Diversity mode = &quot;Closed loop mode 1&quot; the procedure shall be rejected</td>
<td>YES reject</td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Transmit Diversity Indicator</td>
<td>O</td>
<td>9.2.2.53</td>
<td></td>
<td></td>
<td></td>
<td>reject</td>
</tr>
<tr>
<td>Non Cell Specific Tx Diversity</td>
<td>O</td>
<td>ENUMERATED (Tx Diversity, ...)</td>
<td>Value = &quot;Tx Diversity&quot;: Diversity Mode and Transmit Diversity Indicator shall be non cell specific.</td>
<td>YES reject</td>
<td></td>
<td>reject</td>
</tr>
</tbody>
</table>
9.2.2.18EC  HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised

The **HS-DSCH FDD Secondary Serving Information To Modify Unsynchronised** IE is used for modification of Secondary Serving HS-DSCH information in a Node B Communication Context with the Un synchronised Radio Link Reconfiguration procedure.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SCCH Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.2.18I</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sixtyfour QAM Usage Allowed Indicator</td>
<td>O</td>
<td></td>
<td>9.2.2.74A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMO Mode Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.120</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Stream MIMO Mode Indicator</td>
<td>O</td>
<td></td>
<td>9.2.2.124</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.18Ea  HS-DSCH FDD Update Information

The **HS-DSCH FDD Update Information** IE provides information for HS-DSCH to be updated. At least one IE shall be present.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SCCH Code Change Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.31K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQI Feedback Cycle k</td>
<td>O</td>
<td></td>
<td>9.2.2.21B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQI Repetition Factor</td>
<td>O</td>
<td></td>
<td>9.2.2.4Cb</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACK-NACK Repetition Factor</td>
<td>O</td>
<td></td>
<td>9.2.2.a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CQI Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.2.4Ca</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACK Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.2.b</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NACK Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.2.23a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-PDSCH Code Change Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.31M</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.18Eaa HS-DSCH FDD Secondary Serving Update Information

The **HS-DSCH FDD Secondary Serving Update Information** IE provides information for Secondary Serving HS-DSCH to be updated. At least one IE shall be present.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SCCH Code Change Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.31K</td>
<td></td>
</tr>
<tr>
<td>HS-PDSCH Code Change Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.31M</td>
<td>This IE shall never be included. If received it shall be ignored.</td>
</tr>
</tbody>
</table>

9.2.2.18Eb  HS-DSCH Serving Cell Change Information

The **HS-DSCH Serving Cell Change Information** IE contains information which is used in HS-DSCH Serving Cell change.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-PDSCH RL ID</td>
<td>M</td>
<td></td>
<td>RL ID 9.2.1.53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Information</td>
<td>O</td>
<td></td>
<td>HS-DSCH FDD Information 9.2.2.18D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH-RNTI</td>
<td>M</td>
<td></td>
<td>9.2.1.31J</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Packet Connectivity HS-SCCH less Information</td>
<td>O</td>
<td></td>
<td>9.2.2.68</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Packet Connectivity DTX-DRX Information</td>
<td>O</td>
<td></td>
<td>9.2.2.66</td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.18Ec HS-DSCH Serving Cell Change Information Response

The **HS-DSCH Serving Cell Change Information Response** IE contains information which is used in HS-DSCH Serving Cell change.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Serving Cell Change</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Successful</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;HS-DSCH FDD Information Response</td>
<td>M</td>
<td></td>
<td>9.2.2.18E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Continuous Packet Connectivity HS-SCCH less Information Response</td>
<td>O</td>
<td></td>
<td>9.2.2.69</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Unsuccessful</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.18Eca HS-DSCH Secondary Serving Cell Change Information Response

The **HS-DSCH Secondary Serving Cell Change Information Response** IE contains information which is used in HS-DSCH Secondary Serving Cell change.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Secondary Serving Cell Change</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Successful</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;HS-DSCH FDD Secondary Serving Information Response</td>
<td>M</td>
<td></td>
<td>9.2.2.18EA</td>
<td></td>
</tr>
<tr>
<td>&gt;Unsuccessful</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cause</td>
<td>M</td>
<td></td>
<td>9.2.1.6</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.18Ed E-DCH Serving Cell Change Information Response

The **E-DCH Serving Cell Change Information Response** IE contains information which is used in E-DCH Serving Cell change.
### 9.2.2.18Ee HS-DSCH TB Size Table Indicator

The **HS-DSCH TB Size Table Indicator** IE is used to indicate that octet aligned table [32] shall be used.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH TB Size Table Indicator</td>
<td></td>
<td>ENUMERATED (octet aligned)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.18F HS-PDSCH FDD Code Information

This parameter defines the codes which will be assigned for HS-PDSCHs.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number Of HS-PDSCH Codes</td>
<td>M</td>
<td>INTEGER (0..maxHS-PDSCHC odeNrComp-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start Code Number</td>
<td>C-NumCode s</td>
<td>INTEGER (1..maxHS-PDSCHC odeNrComp-1)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>NumCodes</td>
<td>The IE shall be present if the Number Of HS-PDSCH Codes IE is set to a value greater than 0.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MaxHS-PDSCHCodeNrComp</td>
<td>Maximum number of codes at the defined spreading factor, within the complete code tree</td>
</tr>
</tbody>
</table>

### 9.2.2.18G HS-SCCH FDD Code Information

This parameter defines the codes which will be assigned for HS-SCCH. The Node B will assign codes for HS-SCCHs among these codes when it sets up a HS-DSCH.
### 9.2.2.18H HS-SCCH ID

Void.

### 9.2.2.18I HS-SCCH Power Offset

The HS-SCCH Power Offset IE indicates the Power offset relative to the pilot bits on the DL DPCCH except when FDPCH is configured. When F-DPCH is configured, the HS-SCCH Power Offset IE indicates the Power offset relative to the power of transmitted TPC bits on the F-DPCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SCCH Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (0…255)</td>
<td>Unit: dB</td>
</tr>
</tbody>
</table>

Range: -32 .. +31.75 dB
Step: 0.25 dB

### 9.2.2.18K Initial DL DPCH Timing Adjustment Allowed

The Initial DL DPCH Timing Adjustment Allowed IE indicates that the Node B is allowed to perform a timing adjustment (either a timing advance or a timing delay with respect to the SFN timing) when establishing a radio link.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial DL DPCH Timing Adjustment Allowed</td>
<td></td>
<td></td>
<td>ENUMERATED (initial DL DPCH Timing Adjustment Allowed)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.19 Max Adjustment Period

Void.

### 9.2.2.20 Max Adjustment Step

Defines the maximum allowed value for the change of DL power level during a certain number of slots that can be utilised by the downlink power balancing algorithm. Max Adjustment Step IE defines a time period, in terms of number of slots, in which the accumulated power adjustment shall be maximum 1dB. This value does not include the DL inner loop PC adjustment.
### 9.2.2.20A  Max Number Of PCPCHs
Void.

### 9.2.2.20B  Max Number Of UL E-DPDCHs
Void.

### 9.2.2.20C  Maximum Set of E-DPDCHs
The Maximum Set of E-DPDCHs as defined in [8]. Needed by rate matching algorithm.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Number Of UL DPDCHs</td>
<td></td>
<td></td>
<td>INTEGER (1..6)</td>
<td>Max Number Of UL DPDCHs</td>
</tr>
<tr>
<td>Maximum Set of E-DPDCHs</td>
<td></td>
<td></td>
<td>ENUMERATED (vN256, vN128, vN64, vN32, vN16, vN8, vN4, v2xN4, v2xN2, v2xN2plus2xN4, ..., v2xM2plus2xM4)</td>
<td>Maximum Set of E-DPDCHs as defined in [8]. Needed by rate matching algorithm.</td>
</tr>
</tbody>
</table>

### 9.2.2.20D  Maximum Number Of Retransmissions For E-DCH
Void

### 9.2.2.20E  MAC-es Guaranteed Bit Rate
Void

### 9.2.2.20F  MAC-e Reset Indicator
Void

### 9.2.2.21  Maximum Number Of UL DPDCHs
Maximum number of uplink DPDCHs to be used during the connection. Needed by the rate matching algorithm.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Number Of UL DPDCHs</td>
<td></td>
<td></td>
<td>INTEGER (1..6)</td>
<td>Max Number Of UL DPDCHs</td>
</tr>
</tbody>
</table>

### 9.2.2.21a  Maximum Target Received Total Wide Band Power
The Maximum Target Received Total Wide Band Power indicates the maximum target UL interference for a certain cell under CRNC, including received wide band power from all sources.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Target Received Total Wide Band Power</td>
<td></td>
<td></td>
<td>INTEGER (0..621)</td>
<td>The Value mapping is according to mapping for measurement type &quot;Received Total Wide Band Power&quot; in [22].</td>
</tr>
</tbody>
</table>
9.2.2.21b Target Non-serving E-DCH to Total E-DCH Power Ratio

The Target Non-serving E-DCH to Total E-DCH Power Ratio indicates the target ratio of the received E-DCH power from non-serving UEs to the received total E-DCH power.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Non-serving E-DCH to Total E-DCH Power Ratio</td>
<td></td>
<td></td>
<td>INTEGER (0..100)</td>
<td>Unit: % Range: 0..100 % Step: 1 %</td>
</tr>
</tbody>
</table>

9.2.2.21A Maximum PDSCH Power

Void.

9.2.2.21B CQI Feedback Cycle k

The CQI Feedback Cycle k IE provides the duration of the CQI feedback cycle.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CQI Feedback Cycle k</td>
<td></td>
<td></td>
<td>ENUMERATED (0, 2, 4, 8, 10, 20, 40, 80, 160, …, 16, 32, 64)</td>
<td>Unit ms The allowed values for this IE depend on the configured CQI Repetition Factor and the HS-DSCH configuration as defined in [10].</td>
</tr>
</tbody>
</table>

9.2.2.21C Measurement Power Offset

The Measurement Power Offset IE is used as described in ref [10] subclause 6A.2.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (-12..26)</td>
<td>Unit: dB Range: -6..13dB Step: 0.5dB</td>
</tr>
</tbody>
</table>

9.2.2.21D MICH Mode

The number of Notification Indicators (NIs) transmitted in a MICH frame.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICH Mode</td>
<td></td>
<td></td>
<td>ENUMERATED (18, 36, 72, 144, …, 16, 32, 64, 128)</td>
<td>Number of NIs per frame</td>
</tr>
</tbody>
</table>

9.2.2.22 Minimum UL Channelisation Code Length

Minimum UL channelisation code length (spreading factor) of a DPDCH which is used during the connection. Needed by rate matching algorithm.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min UL Channelisation Code Length</td>
<td></td>
<td></td>
<td>ENUMERATED (4, 8, 16, 32, 64, 128, 256, …)</td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.2.22a Min UL Channelisation Code Length For E-DCH FDD

Void.

### 9.2.2.23 Multiplexing Position

Multiplexing Position specifies whether fixed or flexible positions of transport channels shall be used in the physical channel.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiplexing Position</td>
<td></td>
<td></td>
<td>ENUMERATED (Fixed, Flexible)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.23a NACK Power Offset

The *NACK Power Offset* IE indicates Power offset used in the UL between the HS-DPCCH slot carrying HARQ NACK information and the associated DPCCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NACK Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..8,…)</td>
<td>According to mapping in ref. [9] subclause 4.2.1.</td>
</tr>
</tbody>
</table>

### 9.2.2.23A N_EOT

Void.

### 9.2.2.23B NF_max

Void.

### 9.2.2.23C N_Start_Message

Void.

### 9.2.2.23D Number Of Reported Cell Portions

Number of Reported Cell Portions indicates the number of Best Cell Portions values which shall be included in the measurement report.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number Of Reported Cell Portions</td>
<td></td>
<td></td>
<td>INTEGER (1..64,…)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.24 Pattern Duration (PD)

Void.

### 9.2.2.24A PCP Length

Void.

### 9.2.2.25 PDSCH Code Mapping

Void.
9.2.2.26 PICH Mode

The number of paging indicators (PIs) in a PICH frame.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICH Mode</td>
<td></td>
<td></td>
<td>ENUMERATED (18, 36, 72, 144,…)</td>
<td>Number of PIs per frame</td>
</tr>
</tbody>
</table>

9.2.2.27 Power Adjustment Type

Defines the characteristic of the power adjustment.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Adjustment Type</td>
<td></td>
<td></td>
<td>ENUMERATED (None, Common, Individual)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.28 Power Control Mode

Void.

9.2.2.29 Power Offset

This IE defines a power offset relative to the Downlink transmission power of a DPDCH in case the Node B Communication Context is configured to use DPCH in the downlink or relative to a Secondary CCPCH data field.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..24)</td>
<td>Unit: dB Range: 0..6 dB Step: 0.25 dB</td>
</tr>
</tbody>
</table>

9.2.2.29A Power_Raise_Limit

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power_Raise_Limit</td>
<td></td>
<td></td>
<td>INTEGER (0..10)</td>
<td>Unit: dB Range: 0..10 dB Step: 1 dB</td>
</tr>
</tbody>
</table>

9.2.2.30 Power Resume Mode

Void.
### 9.2.2.31 Preamble Signature

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preamble Signatures</td>
<td></td>
<td></td>
<td>BIT STRING (16)</td>
<td>Each bit indicates availability for a signature, where the signatures are numbered &quot;signature 0&quot; up to &quot;signature 15&quot;. The value 1 of a bit indicates that the corresponding signature is available and the value 0 that it is not available. The order of bits is to be interpreted according to subclause 9.3.4. See also [9].</td>
</tr>
</tbody>
</table>

### 9.2.2.32 Preamble Threshold

The IE sets the threshold for preamble detection. The ratio between received preamble power during the preamble period and interference level shall be above this threshold in order to be acknowledged.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preamble Threshold</td>
<td></td>
<td></td>
<td>INTEGER (0..72)</td>
<td>Unit: dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Unit: dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Range: -36 .. 0 dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Step: 0.5 dB</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.33 Primary CPICH Power

The Primary CPICH power is the power that shall be used for transmitting the P-CPICH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CPICH, the Primary CPICH power is the linear sum of the power that is used for transmitting the Primary CPICH on all branches.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary CPICH Power</td>
<td></td>
<td></td>
<td>INTEGER (-100..500)</td>
<td>Value = Primary CPICH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Power/10</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Unit: dBm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Range: -10.0..+50.0 dBm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Step: 0.1 dB</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.33A Primary CPICH Usage For Channel Estimation

The Primary CPICH Usage For Channel Estimation IE indicates whether the Primary CPICH may be used for channel estimation or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary CPICH Usage For</td>
<td></td>
<td></td>
<td>ENUMERATED (</td>
<td>If the Primary CPICH</td>
</tr>
<tr>
<td>Channel Estimation</td>
<td></td>
<td></td>
<td>Primary CPICH may</td>
<td>may be used. Primary</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>be used. Primary CPICH</td>
<td>CPICH shall not be</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>shall not be used)</td>
<td>used)</td>
</tr>
</tbody>
</table>

### 9.2.2.34 Primary Scrambling Code

The Primary scrambling code to be used in the cell.
### 9.2.2.35 Propagation Delay

The Propagation delay is the one-way propagation delay of the radio signal from the MS to the Node B. If the range of the Propagation Delay IE is insufficient to represent the measured value, the Propagation Delay IE shall be set to its maximum value, and the Extended Propagation Delay IE shall be used to represent the propagation delay value, see subclause 9.2.2.35A.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propagation Delay</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td>Unit: chip</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Range: 0..765 chips</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Step: 3 chips</td>
</tr>
</tbody>
</table>

### 9.2.2.35A Extended Propagation Delay

The Extended Propagation delay is the one-way propagation delay of the radio signal from the MS to the Node B. It shall be used if the Propagation Delay IE (see 9.2.2.35) cannot represent the measured value, due to range limitation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended Propagation Delay</td>
<td></td>
<td></td>
<td>INTEGER (255..1023)</td>
<td>Continuation of intervals as defined in [22].</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Unit: chip</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Range: 765..3069 chips</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Step: 3 chips</td>
</tr>
</tbody>
</table>

### 9.2.2.36 QE-Selector

Void.

### 9.2.2.36A Qth Parameter

Void.

### 9.2.2.37 RACH Slot Format

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RACH Slot Format</td>
<td></td>
<td></td>
<td>ENUMERATED (0..3,...)</td>
<td>See ref. [7].</td>
</tr>
</tbody>
</table>
9.2.2.38  RACH Sub Channel Numbers

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RACH Sub Channel Numbers</td>
<td></td>
<td></td>
<td>BIT STRING (12)</td>
<td>Each bit indicates availability for a subchannel, where the subchannels are numbered &quot;subchannel 0&quot; to &quot;subchannel 11&quot;. The value 1 of a bit indicates that the corresponding subchannel is available and the value 0 indicates that it is not available. The order of bits is to be interpreted according to subclause 9.3.4.</td>
</tr>
</tbody>
</table>

9.2.2.39  RL Set ID

The RL Set ID uniquely identifies one RL Set within a Node B Communication Context.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL Set ID</td>
<td></td>
<td></td>
<td>INTEGER (0..31)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.39a  RL Specific E-DCH Information

The *RL Specific E-DCH Information* IE provides RL specific E-DCH Information.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL Specific E-DCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; E-DCH MAC-d Flow ID</td>
<td>M</td>
<td>1..&lt;maxno ofEDCHMACdFlows &gt;</td>
<td>9.2.1.74</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt; Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td></td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt; Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td></td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>E-AGCH Power Offset</td>
<td>O</td>
<td>9.2.2.13Id</td>
<td>9.2.2.13le</td>
<td></td>
</tr>
<tr>
<td>E-RGCH Power Offset</td>
<td>O</td>
<td>9.2.2.13If</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Range Bound | Explanation               |
maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows |

9.2.2.39A  Received Total Wide Band Power

The Received total wide band power indicates the UL interference at a certain cell under CRNC, see ref. [4].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Received Total Wide Band Power</td>
<td></td>
<td></td>
<td>INTEGER (0..621)</td>
<td>According to mapping in [22].</td>
</tr>
</tbody>
</table>
9.2.2.39B Reference Received Total Wide Band Power

When sent by the CRNC, the Reference Received Total Wide Band Power indicates the reference UL interference (received noise level) for a certain cell under CRNC. This value may be used for E-DCH scheduling in the Node B.

When reported by the Node B, the Reference Received Total Wide Band Power indicates the reference UL interference (received noise level as an estimate of the noise floor) estimate from the Node B. This value may be used, e.g. for admission or congestion control in the CRNS.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Received Total Wide Band Power</td>
<td></td>
<td></td>
<td>INTEGER (0..621)</td>
<td>The Value mapping is according to mapping for measurement type &quot;Received Total Wide Band Power&quot; in [22].</td>
</tr>
</tbody>
</table>

9.2.2.39C Reference Received Total Wide Band Power Reporting

The Reference Received Total Wide Band Power Reporting controls the indication of the Reference Received Total Wide Band Power estimate from the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Received Total Wide Band Power Reporting</td>
<td></td>
<td></td>
<td>ENUMERATED (Reference Received Total Wide Band Power Requested)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.39D Reference Received Total Wide Band Power Support Indicator

The Reference Received Total Wide Band Power Support Indicator indicates whether indication of Reference Received Total Wide Band Power is supported by the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Received Total Wide Band Power Support Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (Indication of Reference Received Total Wide Band Power supported)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.40 S-Field Length

Void.

9.2.2.40A Scheduling Information

Void.

9.2.2.41 Scrambling Code Change

Void.
9.2.2.42 Scrambling Code Number

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scrambling Code Number</td>
<td></td>
<td></td>
<td>INTEGER (0..15)</td>
<td>Identification of scrambling code see ref. [9].</td>
</tr>
</tbody>
</table>

9.2.2.43 Secondary CCPCH Slot Format

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary CCPCH Slot Format</td>
<td></td>
<td></td>
<td>INTEGER (0..17,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.43A Secondary CPICH Information Change

The Secondary CPICH Information Change IE indicates modification of information of the Secondary CPICH for channel estimation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Secondary CPICH Information Change</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;New Secondary CPICH Information</td>
<td>M</td>
<td></td>
<td>Common Physical Channel ID 9.2.1.13</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Secondary CPICH Shall Not Be Used</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.44 SSDT Cell Identity

Void.

9.2.2.44A SSDT Cell Identity For EDSCHPC

Void.

9.2.2.45 SSDT Cell ID Length

Void.

9.2.2.46 SSDT Support Indicator

The SSDT Support Indicator indicates whether a RL supports SSDT or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSDT Support Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (Not Used, SSDT Not Supported)</td>
<td>The SSDT Support Indicator IE shall never be set to 'Not Used'. If received it shall be rejected.</td>
</tr>
</tbody>
</table>

9.2.2.47 SSDT Indication

Void.
9.2.2.48 STTD Indicator
Indicates if STTD shall be active or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STTD Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(active, inactive, ...)</td>
</tr>
</tbody>
</table>

9.2.2.48A Synchronisation Indicator
The Synchronisation Indicator IE indicates that Timing Maintained Synchronisation shall be used at start of Radio Link, see also [10].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synchronisation Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Timing Maintained Synchronisation, ...)</td>
</tr>
</tbody>
</table>

9.2.2.48B Serving E-DCH RL

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Serving E-DCH RL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Serving E-DCH RL in this Node B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Serving E-DCH RL ID</td>
<td>M</td>
<td></td>
<td></td>
<td>RL ID 9.2.1.53</td>
</tr>
<tr>
<td>&gt;Serving E-DCH RL not in this Node B</td>
<td></td>
<td></td>
<td></td>
<td>NULL</td>
</tr>
</tbody>
</table>

9.2.2.49 T Cell
Timing delay used for defining start of SCH, CPICH and the DL scrambling code(s) in a cell relative to BFN. Resolution 256 chips.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T Cell</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(0, 1,..,9)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Unit: chip</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Range: 0..2304 chips</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Step: 256 chips</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>See ref. [17]</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.49A TFCI2 Bearer Information Response
Void.

9.2.2.50 TFCI Signalling Mode
This parameter indicates if the normal or split mode is used for the TFCI. In the event that the split mode is to be used then the IE indicates whether the split is ”Hard” or ”Logical”, and in the event that the split is “Logical” the IE indicates the number of bits in TFCI (field 2).
### TFCI Signalling Option

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TFCI Signalling Option</td>
<td>M</td>
<td></td>
<td>ENUMERATED (Normal, Not Used)</td>
<td>The value &quot;Not Used&quot; shall not be used by the CRNC. The procedure shall be rejected by the Node B if the value &quot;Not Used&quot; is received.</td>
</tr>
<tr>
<td>Not Used</td>
<td>O</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>Not Used</td>
<td>O</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.2.51 TGD

Void.

#### 9.2.2.52 TGL

Void.

#### 9.2.2.53 Transmit Diversity Indicator

The Transmit Diversity Indicator indicates whether transmit diversity shall be active or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmit Diversity Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (active, inactive)</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.2.53A Transmission Gap Pattern Sequence Information

Defines the parameters for the compressed mode gap pattern sequence. For details see ref. [18].
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission Gap Pattern Sequence Information</td>
<td></td>
<td>1..&lt;maxT GPS&gt;</td>
<td>INTEGER (1..maxTGPS)</td>
<td>Transmission Gap Pattern Sequence Identifier: Establish a reference to the compressed mode pattern sequence. Up to &lt;maxTGPS&gt; simultaneous compressed mode pattern sequences can be used.</td>
</tr>
<tr>
<td>&gt;TGPS Identifier</td>
<td>M</td>
<td>INTEGER (0..14)</td>
<td></td>
<td>Transmission Gap Starting Slot Number: The slot number of the first transmission gap slot within the TGCFN.</td>
</tr>
<tr>
<td>&gt;TGSN</td>
<td>M</td>
<td>INTEGER (1..14)</td>
<td></td>
<td>The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots.</td>
</tr>
<tr>
<td>&gt;TGL1</td>
<td>M</td>
<td>INTEGER (1..14)</td>
<td></td>
<td>The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.</td>
</tr>
<tr>
<td>&gt;TGL2</td>
<td>O</td>
<td>INTEGER (1..14)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TGD</td>
<td>M</td>
<td>INTEGER (0, 15.. 269)</td>
<td></td>
<td>Transmission Gap Distance: indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gap pattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to &quot;0&quot; (&quot;0&quot; =undefined).</td>
</tr>
<tr>
<td>&gt;TGPL1</td>
<td>M</td>
<td>INTEGER (1..144,… )</td>
<td></td>
<td>The duration of transmission gap pattern 1 in frames.</td>
</tr>
<tr>
<td>&gt;Not-to-be-used-1</td>
<td>O</td>
<td>INTEGER (1..144,… )</td>
<td></td>
<td>This IE shall never be included in the IE group. If received it shall be ignored.</td>
</tr>
<tr>
<td>&gt;UL/DL Mode</td>
<td>M</td>
<td>ENUMERATED ( UL only, DL only, UL/DL)</td>
<td></td>
<td>Defines whether only DL, only UL or combined UL/DL compressed mode is used.</td>
</tr>
<tr>
<td>&gt;Downlink Compressed Mode Method</td>
<td>C-DL</td>
<td>ENUMERATED ( Not Used, SF/2, Higher Layer Scheduling, …)</td>
<td></td>
<td>Method for generating downlink compressed mode gap. The Downlink Compressed Mode Method IE shall never be set to 'Not Used'.</td>
</tr>
<tr>
<td>&gt;Uplink Compressed Mode Method</td>
<td>C-UL</td>
<td>ENUMERATED ( SF/2, Higher Layer Scheduling, …)</td>
<td></td>
<td>Method for generating uplink compressed mode gap.</td>
</tr>
<tr>
<td>&gt;Downlink Frame Type</td>
<td>M</td>
<td>ENUMERATED (A, B,…)</td>
<td></td>
<td>Defines if frame structure type &quot;A&quot; or &quot;B&quot; shall be used in downlink compressed mode.</td>
</tr>
<tr>
<td>&gt;DeltaSIR1</td>
<td>M</td>
<td>INTEGER (0..30)</td>
<td></td>
<td>Delta in SIR target value to be set in the Node B during the frame containing the start of the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase). Unit: dB Range: 0..3 dB Step: 0.1 dB</td>
</tr>
<tr>
<td>Condition</td>
<td>Explanation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UL</td>
<td>The IE shall be present if the UL/DL mode IE is set to &quot;UL only&quot; or &quot;UL/DL&quot;.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DL</td>
<td>The IE shall be present if the UL/DL mode IE is set to &quot;DL only&quot; or &quot;UL/DL&quot;.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Range Bound

| maxTGPS   | Maximum number of transmission gap pattern sequences |

#### 9.2.2.53B Transmission Gap Pattern Sequence Code Information

This IE indicates whether the alternative scrambling code shall used for the Downlink compressed mode method or not in the Transmission Gap Pattern Sequence. For details see [9].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission Gap Pattern Sequence Code Information</td>
<td></td>
<td></td>
<td>ENUMERATED (Code Change, No Code Change)</td>
<td>Indicates whether the alternative scrambling code is used for compressed mode method &quot;SF/2&quot;.</td>
</tr>
</tbody>
</table>

#### 9.2.2.54 UL/DL compressed mode selection

Void.
9.2.2.55 UL delta SIR
Void.

9.2.2.56 UL delta SIR after
Void.

9.2.2.57 UL DPCCH Slot Format
Indicates the slot format used in DPCCH in UL, according to ref. [7].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL DPCCH Slot Format</td>
<td></td>
<td></td>
<td>INTEGER (0..5,...)</td>
<td>Value 5 shall not be used. If value 5 is received, the procedure shall be rejected.</td>
</tr>
</tbody>
</table>

9.2.2.58 UL SIR
Void.

9.2.2.59 UL Scrambling Code
The UL Scrambling Code is the scrambling code used by UE. Every UE has its specific UL Scrambling Code.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Scrambling Code Number</td>
<td>M</td>
<td></td>
<td>INTEGER (0..2^24-1)</td>
<td></td>
</tr>
<tr>
<td>UL Scrambling Code Length</td>
<td>M</td>
<td></td>
<td>ENUMERATED (Short, Long)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.60 UL Capacity Credit
Void.

9.2.2.61 UL DPDCH Indicator For E-DCH Operation
The UL DPDCH Indicator For E-DCH Operation parameter indicates whether some UL DPCH parameters should be ignored or not in the message in which the UL DPDCH Indicator For E-DCH Operation IE was included or that any UL DPCH resources shall be removed from the communication context configuration.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL DPDCH Indicator For E-DCH Operation</td>
<td></td>
<td></td>
<td>ENUMERATED (UL-DPDCH present, UL-DPDCH not present)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.62 Fast Reconfiguration Mode
The Fast Reconfiguration Mode IE is used to notify the Node B that the SRNC would like to use the activation time 'when the UE is detected on the new configuration' as the timing for the reconfiguration.
### Fast Reconfiguration Mode

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast Reconfiguration Mode</td>
<td></td>
<td></td>
<td>ENUMERATED (Fast…)</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.2.63 Fast Reconfiguration Permission

The *Fast Reconfiguration Permission* IE is used to indicate to the CRNC that the Node B can apply the activation time 'when the UE is detected on the new configuration' for this reconfiguration.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast Reconfiguration Permission</td>
<td></td>
<td></td>
<td>ENUMERATED (Allowed…)</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.2.64 Continuous Packet Connectivity DTX-DRX Capability

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Packet Connectivity DTX-DRX Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (Continuous Packet Connectivity DTX-DRX Capable, Continuous Packet Connectivity DTX-DRX Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.2.65 Continuous Packet Connectivity HS-SCCH less Capability

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Packet Connectivity HS-SCCH less Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (Continuous Packet Connectivity HS-SCCH less Capable, Continuous Packet Connectivity HS-SCCH less Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.2.66 Continuous Packet Connectivity DTX-DRX Information

The *Continuous Packet Connectivity DTX-DRX Information* IE defines the parameters used for Continuous Packet Connectivity DTX-DRX operation (see ref. [10]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UE DTX DRX Offset</td>
<td>M</td>
<td></td>
<td>INTEGER (0..159)</td>
<td>Units of subframes. Offset of the UE DTX and DRX cycles at the given TTI</td>
</tr>
<tr>
<td>Enabling Delay</td>
<td>M</td>
<td></td>
<td>ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)</td>
<td>Units of radio frames</td>
</tr>
<tr>
<td><strong>DTX Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CHOICE E-DCH TTI Length</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;2ms</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;UE DTX Cycle 1</td>
<td>M</td>
<td></td>
<td>ENUMERATED (1, 4, 5, 8, 10, 16, 20)</td>
<td>Units of subframes</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;UE DTX Cycle 2</td>
<td>M</td>
<td></td>
<td>ENUMERATED (4,)</td>
<td>Units of subframes</td>
</tr>
</tbody>
</table>
9.2.2.67 Continuous Packet Connectivity DTX-DRX Information To Modify

The Continuous Packet Connectivity DTX-DRX Information To Modify IE is used for modification of Continuous Packet Connectivity DTX-DRX information in a Node B Communication Context. The Continuous Packet Connectivity DTX-DRX Information To Modify IE shall include at least one of the following IE.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UE DTX DRX Offset</td>
<td>O</td>
<td>0..159</td>
<td>INTEGER (0..159)</td>
<td>Units of subframes. Offset of the UE DTX and DRX cycles at the given TTI</td>
</tr>
<tr>
<td>Enabling Delay</td>
<td>O</td>
<td>0..128</td>
<td>ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)</td>
<td>Units of radio frames</td>
</tr>
<tr>
<td>CHOICE DTX Information To Modify</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Modify</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;CHOICE E-DCH TTI Length</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;2ms</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;UE DTX Cycle 1</td>
<td>M</td>
<td></td>
<td>ENUMERATED (1, 4, 5, 8, 10, 16, 20)</td>
<td>Units of subframes</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;&gt;&gt;UE DTX Cycle 2</td>
<td>M</td>
<td></td>
<td>ENUMERATED (4,</td>
<td>Units of subframes</td>
</tr>
</tbody>
</table>
9.2.2.68 Continuous Packet Connectivity HS-SCCH less Information

The Continuous Packet Connectivity HS-SCCH less Information IE defines the parameters used for Continuous Packet Connectivity HS-SCCH less operation (see ref. [10]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Block Size List</td>
<td></td>
<td>1..&lt;maxno of HS-DSCHTBS sHS-SCCHless &gt;</td>
<td>1..&lt;maxno of HS-DSCHTBS sHS-SCCHless &gt;</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Block Size Index</td>
<td>M</td>
<td>INTEGER</td>
<td>INTEGER</td>
<td>True = The second HS-PDSCH code shall also be used</td>
</tr>
<tr>
<td>&gt;HS-PDSCH Second Code Support</td>
<td>M</td>
<td>BOOLEAN</td>
<td>BOOLEAN</td>
<td>True = The second HS-PDSCH code shall also be used</td>
</tr>
</tbody>
</table>
9.2.2.69 Continuous Packet Connectivity HS-SCCH less Information Response

The Continuous Packet Connectivity HS-SCCH less Information Response IE provides information for HS-SCCH less operation determined within the Node B (see ref. [10]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-PDSCH First Code Index</td>
<td>M</td>
<td>INTEGER</td>
<td>Index of first HS-PDSCH code</td>
<td></td>
</tr>
<tr>
<td>HS-PDSCH Second Code Index</td>
<td>O</td>
<td>INTEGER</td>
<td>Index of second HS-PDSCH code</td>
<td></td>
</tr>
<tr>
<td>NOTE 1: The &quot;HS-PDSCH second code index&quot; value is</td>
<td></td>
<td></td>
<td>the value of IE &quot;HS-PDSCH First Code Index&quot; incremented</td>
<td></td>
</tr>
<tr>
<td>by 1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.69A Continuous Packet Connectivity HS-SCCH less Deactivate Indicator

The Continuous Packet Connectivity HS-SCCH less Deactivate Indicator IE is used to deactivate HS-SCCH less operation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Packet Connectivity HS-SCCH less</td>
<td>M</td>
<td>NULL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deactivate Indicator</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxHS-PDSCHCodeNrComp</td>
<td>Maximum number of codes at the defined spreading</td>
</tr>
<tr>
<td></td>
<td>factor, within the complete code tree</td>
</tr>
</tbody>
</table>
9.2.2.73  MIMO Pilot Configuration

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Pilot Configuration</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Primary and Secondary CPICH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Associated Secondary CPICH</td>
<td>M</td>
<td></td>
<td></td>
<td>Common Physical Channel ID 9.2.1.13</td>
</tr>
<tr>
<td>&gt;Normal and Diversity Primary CPICH</td>
<td></td>
<td></td>
<td></td>
<td>NULL</td>
</tr>
</tbody>
</table>

9.2.2.74  SixtyfourQAM DL Capability

Void.

9.2.2.74A  Sixtyfour QAM Usage Allowed Indicator

The Sixtyfour QAM Usage Allowed Indicator IE indicates whether the Node B is allowed to use 64 QAM modulation for HS-DSCH transmission or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sixtyfour QAM Usage Allowed Indicator</td>
<td>M</td>
<td></td>
<td>ENUMERATED (Allowed, Not-Allowed)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.74B  SixtyfourQAM DL Usage Indicator

The SixtyfourQAM DL Usage Indicator IE indicates if the Node B is using 64 QAM modulation for the HS-DSCH transmission, or if the Node B is not using 64 QAM modulation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SixtyfourQAM DL Usage Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (SixtyfourQAM DL Used, SixtyfourQAM DL Not Used)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.75  HS-DSCH Common System Information

The HS-DSCH Common System Information IE provides information for HS-DSCH configured for UE in Cell_FACH, in Cell_PCH and in URA_PCH and Information related to BCCH modification.
### IE/Group Name

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HS-DSCH Common Information</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCCH Priority Queue ID</td>
<td>M</td>
<td>Priority Queue ID</td>
<td>9.2.1.49C</td>
</tr>
<tr>
<td>&gt;SRB#1 Priority Queue ID</td>
<td>M</td>
<td>Priority Queue ID</td>
<td>9.2.1.49C</td>
</tr>
<tr>
<td>&gt;Associated Common MAC Flow</td>
<td>M</td>
<td>Common MAC Flow ID</td>
<td>9.2.2.79</td>
</tr>
<tr>
<td>&gt;FACH Measurement Occasion Cycle Length Coefficient</td>
<td>O</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;RACH Measurement Result</td>
<td>M</td>
<td></td>
<td>9.2.2.84</td>
</tr>
<tr>
<td>&gt;BCCH Specific HS-DSCH-RNTI Information</td>
<td>M</td>
<td></td>
<td>9.2.2.85</td>
</tr>
<tr>
<td><strong>Common MAC Flow Specific Information</strong></td>
<td>0..&lt;maxno ofCommon MACFlows</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common MAC Flow ID</td>
<td>M</td>
<td>9.2.2.79</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;Common MAC Flow Priority Queue Information</td>
<td>0..&lt;maxno ofCommon MACQueues</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Priority Queue Information for Enhanced FACH</td>
<td>M</td>
<td>Priority Queue Information for Enhanced FACH/PCH</td>
<td>9.2.1.117</td>
</tr>
<tr>
<td>&gt;Transport Bearer Request Indicator</td>
<td>O</td>
<td>9.2.1.62A</td>
<td>Shouldn’t be contained if the MAC flow is setup in procedure. Should be contained if the MAC flow is modified in procedure</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofCommonMACFlows</td>
<td>Maximum number of Common MAC Flows</td>
</tr>
<tr>
<td>maxnoofCommonMACQueues</td>
<td>Maximum number of Priority Queues for Common MAC Flow</td>
</tr>
</tbody>
</table>

### 9.2.2.76  HS-DSCH Paging System Information

The **HS-DSCH Paging System Information** IE provides information for HS-DSCH configured for UE in Cell_PCH and URA_PCH.
### IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description
--- | --- | --- | --- | ---
**Paging MAC Flow Specific Information** |  | 1..<maxno ofPagingMACFlow> | | |
>Paging MAC Flow ID | M | | 9.2.1.113 | |
>HSDPA Associated PICH Information | M | | 9.2.2.81 | |
>Binding ID | O | | 9.2.1.4 | Shall be ignored if bearer establishment with ALCAP.
>Transport Layer Address | O | | 9.2.1.63 | Shall be ignored if bearer establishment with ALCAP.
>TNL QoS | O | | 9.2.1.58A | Shall be ignored if bearer establishment with ALCAP.
>ToAWS | M | | 9.2.1.61 | |
>ToAWE | M | | 9.2.1.60 | |
>**Paging MAC Flow Priority Queue Information** | | | | |
>>Priority Queue Information for Enhanced PCH | M | | | |
>Transport Bearer Request Indicator | O | | 9.2.1.62A | Shouldn't be contained if the MAC flow is setup in procedure. Should be contained if the MAC flow is modified in procedure.

**HS-SCCH Power**
- M | DL Power | 9.2.1.21 |

**HS-PDSCH Power**
- M | DL Power | 9.2.1.21 |

**Number of PCCH transmissions**
- M | INTEGER (1..5) | Number of subframes used to transmit the PCCH.

**Transport Block Size List**
- 1..<maxno ofHS-DSCHTBSsE-PCH> |

>Transport Block Size Index for Enhanced PCH | M | INTEGER (1..32) | Index of the value range 1 to 32 of the MAC-ehs transport block size as specified in appendix A of [32] |

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxPagingMACFlow</td>
<td>Maximum number of Paging MAC Flows</td>
</tr>
<tr>
<td>maxPagingMACQueues</td>
<td>Maximum number of Priority Queues for Paging MAC Flow</td>
</tr>
<tr>
<td>maxHS-DSCHTBSsE-PCH</td>
<td>Maximum number of HS-DSCH Transport Block Sizes used for Enhanced PCH operation associated HS-SCCH less</td>
</tr>
</tbody>
</table>

### 9.2.2.77 HS-DSCH Common System Information Response

The **HS-DSCH Common System Information Response** IE provides information for HS-DSCH configured for UE not in Cell_DCH that have been established or modified.

### IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description
--- | --- | --- | --- | ---
**HS-SCCH Specific Information Response** | | 0..<maxno ofHS-SCCH Hcodes> | Channelization codes on HS-SCCH is transmitted for UE not in Cell_DCH |
>Code Number | M | | INTEGER (0..127) | First indexed HS-SCCH Channelisation code should be used for the BCCH specific H-RNTI. |
HARQ Memory Partitioning | O | 9.2.1.102
---|---|---
**Common MAC Flow Specific Information Response** | | 
>Common MAC Flow ID | M | 9.2.2.79
>Binding ID | O | 9.2.1.4
>Transport Layer Address | O | 9.2.1.63
>HS-DSCH Initial Capacity Allocation | O | 9.2.1.31Ha

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofCommonMACFlows</td>
<td>Maximum number of Common MAC Flows</td>
</tr>
<tr>
<td>maxnoofHSSCCCHcodes</td>
<td>Maximum number of HS-SCCH codes</td>
</tr>
</tbody>
</table>

### 9.2.2.78 HS-DSCH Paging System Information Response

The **HS-DSCH Paging System Information Response** IE provides information for HS-DSCH configured for UE in Cell_PCH and URA_PCH that have been established or modified.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paging MAC Flow Specific Information Response</td>
<td>1..&lt;maxnoofPagingMACFlows</td>
<td></td>
<td>9.2.2.113</td>
<td></td>
</tr>
</tbody>
</table>
> | Paging MAC Flow ID | M | | 9.2.2.1.113 |
> | Binding ID | O | | 9.2.1.4 |
> | Transport Layer Address | O | | 9.2.1.63 |
> | HS-PDSCH Code Index | M | INTEGER (1..maxHS-PDSCHCode
NrComp-1) | Index of HS-PDSCH code |

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofPagingMACFlow</td>
<td>Maximum number of Paging MAC Flows</td>
</tr>
</tbody>
</table>

### 9.2.2.79 Common MAC Flow ID

Common MAC Flow ID is the unique identifier for one Common MAC flow.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common MAC Flow ID</td>
<td></td>
<td>INTEGER (0..7)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.80 Paging MAC Flow ID

Void.

### 9.2.2.81 HSDPA Associated PICH Information

The **HSDPA Associated PICH Information** IE provides information for PICH used for Enhanced PCH operation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE HSDPA PICH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
>Shared with PCH

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
</tr>
</tbody>
</table>

>Not shared with PCH

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
</tr>
<tr>
<td>FDD DL Channelisation Code Number</td>
<td>M</td>
<td></td>
<td>9.2.2.14</td>
<td></td>
</tr>
<tr>
<td>PICH Power</td>
<td>M</td>
<td></td>
<td>9.2.1.49A</td>
<td>Number of PI per frame</td>
</tr>
<tr>
<td>PICH Mode</td>
<td>M</td>
<td></td>
<td>9.2.2.26</td>
<td></td>
</tr>
<tr>
<td>STTD Indicator</td>
<td>M</td>
<td></td>
<td>9.2.2.48</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.82 FACH Measurement Occasion Cycle Length Coefficient

Void.

9.2.2.83 Priority Queue Information for Enhanced FACH/PCH

Void.

9.2.2.84 RACH Measurement Result

The RACH Measurement Result identifies which RACH measurement result is forwarded to Node B in Frame Protocol.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RACH Measurement Result</td>
<td></td>
<td></td>
<td>ENUMERATED (CPICH Ec/No, CPICH RSCP, Pathloss,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.85 BCCH Specific HS-DSCH RNTI Information

The BCCH Specific HS-DSCH RNTI Information IE provides information for BCCH Transmission using HS-DSCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCCH Specific HS-DSCH RNTI</td>
<td>M</td>
<td></td>
<td>HS-DSCH-RNTI 9.2.1.31J</td>
<td></td>
</tr>
<tr>
<td>HS-SCCH Power</td>
<td>M</td>
<td></td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
<tr>
<td>HS-PDSCH Power</td>
<td>M</td>
<td></td>
<td>DL Power 9.2.1.21</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.86 Enhanced FACH Capability

Void.

9.2.2.87 Enhanced PCH Capability

Void.

9.2.2.88 SixteenQAM UL Capability

This parameter defines the SixteenQAM uplink capability for a Local Cell.
### 9.2.2.88A SixteenQAM UL Operation Indicator

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SixteenQAM UL Operation Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Activate, Deactivate)</td>
</tr>
</tbody>
</table>

### 9.2.2.88B E-TFCI Boost Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-TFCI BetaEC Boost</td>
<td>M</td>
<td>C-E-TFCIboost127</td>
<td>INTEGER (0..127,...)</td>
<td>E-TFCI threshold beyond which boosting of E-DPCCH is enabled</td>
</tr>
<tr>
<td>UL Delta T2TP</td>
<td>C-E-TFCIboost127</td>
<td>INTEGER (0..6,...)</td>
<td>Total E-DPDCH power across all codes to the combined power of DPCCH and E-DPCCH</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-TFCIboost127</td>
<td>The IE shall be present if the E-TFCI BetaEC Boost IE value is not set to 127.</td>
</tr>
</tbody>
</table>

### 9.2.2.89 SixteenQAM UL Information

Void.

### 9.2.2.90 SixteenQAM UL Information To Modify

Void.

### 9.2.2.91 Modulation Power Offset

Indicates the modulation, and power offset in case of 16QAM, to be used for the Secondary CCPCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Modulation</td>
<td>M</td>
<td></td>
<td>NULL</td>
<td>Power offset between CPICH and secondary CCPCH. Unit: dB Range: -11 .. +4 dB Step: 1 dB</td>
</tr>
<tr>
<td>&gt;QPSK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;QAM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CPICH Secondary</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCPCH Power Offset</td>
<td>M</td>
<td></td>
<td>INTEGER (-11..4,...)</td>
<td></td>
</tr>
</tbody>
</table>
9.2.2.92 Extended Secondary CCPCH Slot Format

Indicates the slot format used for the Secondary CCPCH. The extended slot format shall only be used for MBSFN.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended Secondary CCPCH Slot Format</td>
<td></td>
<td></td>
<td>INTEGER(18..23,….)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.93 F-DPCH Slot Format

The *F-DPCH Slot Format* IE defines the F-DPCH slot format for the TPC bits, as defined in [7].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-DPCH Slot Format</td>
<td></td>
<td></td>
<td>INTEGER (0..9)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.94 F-DPCH Slot Format Capability

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-DPCH Slot Format Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (F-DPCH Slot Format Capable, F-DPCH Slot Format Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.95 Max UE DTX Cycle

The *Max UE DTX Cycle* IE defines the maximum UE DTX cycle supported by the Node B for Continuous Packet Connectivity DTX-DRX operation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max UE DTX Cycle</td>
<td>M</td>
<td></td>
<td>ENUMERATED (v5, v10, v20, v40, v64, v80, v128, v160,...)</td>
<td>Units of subframes</td>
</tr>
</tbody>
</table>

9.2.2.96 MIMO N/M Ratio

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIMO N/M Ratio</td>
<td>M</td>
<td></td>
<td>ENUMERATED (1/2, 2/3, 3/4, 4/5, 5/6, 6/7, 7/8, 8/9, 9/10, 1/1,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.97 Common MAC Flows To Delete

The *Common MAC Flows To Delete* IE is used for the removal of Common MAC flows from a Node B.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common MAC Flows To Delete</td>
<td></td>
<td>1..&lt;maxno ofCommon MACFlows &gt;</td>
<td>ENUMERATED (Common MAC Capable)</td>
<td>Table 16B: Mapping of Absolute Grant Value in [8] and Table 16B-1 indicates the Table 16B: Alternative Mapping of Absolute Grant Value in [8].</td>
</tr>
<tr>
<td>&gt;Common MAC Flow ID</td>
<td>M</td>
<td></td>
<td>9.2.2.79</td>
<td></td>
</tr>
</tbody>
</table>

#### Range Bound

| maxnoofCommonMACFlows         | Maximum number of Common MAC Flows |

9.2.2.98 Paging MAC Flows To Delete

The Paging MAC Flows To Delete IE is used for the removal of Paging MAC flows from a Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paging MAC Flows To Delete</td>
<td></td>
<td>1..&lt;maxno ofPagingMACFlow&gt;</td>
<td>ENUMERATED (Paging MAC Capable)</td>
<td>Table 16B: Mapping of Absolute Grant Value in [8] and Table 16B-1 indicates the Table 16B: Alternative Mapping of Absolute Grant Value in [8].</td>
</tr>
<tr>
<td>&gt;Paging MAC Flow ID</td>
<td>M</td>
<td></td>
<td>9.2.1.113</td>
<td></td>
</tr>
</tbody>
</table>

#### Range Bound

| maxnoofPagingMACFlow          | Maximum number of Paging MAC Flows |

9.2.2.99 MAC-ehs Reset Timer

Void.

9.2.2.100 E-AGCH Table Choice

The E-AGCH Table Choice IE indicates the choice of the E-AGCH table in[8].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-AGCH Table Choice</td>
<td>M</td>
<td></td>
<td>ENUMERATED (E-AGCH Capable, Common E-DCH non Capable)</td>
<td>Table 16B indicates the Table 16B: Mapping of Absolute Grant Value in [8] and Table 16B-1 indicates the Table 16B: Alternative Mapping of Absolute Grant Value in [8].</td>
</tr>
</tbody>
</table>

9.2.2.101 Common E-DCH Capability

This parameter defines the Common E-DCH capability for a Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common E-DCH Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (Common E-DCH Capable, Common E-DCH non Capable)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.102 E-Al Capability

This parameter defines the E-Al capability for a Common E-DCH capable Local Cell.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-AI Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (E-AI Capable, E-AI non Capable)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.103  Common E-DCH System Information

The Common E-DCH System Information IE provides information for E-DCH configured for UE in Cell_FACH and Idle state.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common E-DCH UL DPCH Information</td>
<td>0..1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL SIR Target</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DPC Mode</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Set of E-DPDCCHs</td>
<td>M</td>
<td></td>
<td>9.2.2.20C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Puncture Limit</td>
<td>M</td>
<td></td>
<td>9.2.1.50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-TFCS Information</td>
<td>M</td>
<td></td>
<td>9.2.2.13Dh</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-TTI</td>
<td>M</td>
<td></td>
<td>9.2.2.13Di</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DPCCH Power Offset</td>
<td>M</td>
<td></td>
<td>9.2.2.13Dj</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RGCH 2-Index-Step Threshold</td>
<td>O</td>
<td></td>
<td>9.2.2.13Ig</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RGCH 3-Index-Step Threshold</td>
<td>O</td>
<td></td>
<td>9.2.2.13Ih</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HARQ Info for E-DCH</td>
<td>M</td>
<td></td>
<td>9.2.2.18ba</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common E-DCH Information</td>
<td>0..1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Reference Power Offset</td>
<td>O</td>
<td></td>
<td>9.2.2.13Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Power Offset for Scheduling Info</td>
<td>O</td>
<td></td>
<td>9.2.1.85</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum E-DCH resource allocation for CCCH</td>
<td>M</td>
<td></td>
<td>ENUMERATED (8, 12, 16, 24, 32, 40, 80, 120,...)</td>
<td>Interms of TTIs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum period for collision resolution phase</td>
<td>M</td>
<td></td>
<td>INTEGER(8..24,..)</td>
<td>Interms of TTIs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum TB Sizes</td>
<td>O</td>
<td></td>
<td>9.2.2.106</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common E-DCH implicit release indicator</td>
<td>M</td>
<td></td>
<td>BOOLEAN</td>
<td>TRUE means implicit release is in use. FALSE means implicit release is not in use.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common E-DCH HS-DPCCH Information</td>
<td>0..1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ACK-NACK Repetition Factor</td>
<td>M</td>
<td></td>
<td>9.2.2.2.a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ACK Power Offset</td>
<td>M</td>
<td></td>
<td>9.2.2.2.b</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;NACK Power Offset</td>
<td>M</td>
<td></td>
<td>9.2.2.23a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common E-DCH CQI Information</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;CQI Feedback Cycle k</td>
<td>M</td>
<td></td>
<td>9.2.2.21B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;CQI Repetition Factor</td>
<td>C-CQICyclek</td>
<td></td>
<td>9.2.2.4Cb</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;CQI Power Offset</td>
<td>M</td>
<td></td>
<td>9.2.2.4Ca</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Measurement Power Offset</td>
<td>M</td>
<td></td>
<td>9.2.2.21C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Common E-DCH Preamble Control Information</strong></td>
<td>0..1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>------</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common E-DCH Preamble Signature</td>
<td>M</td>
<td>Preamble Signatures 9.2.2.31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Scrambling Code Number</td>
<td>M</td>
<td>9.2.2.42</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Preamble Threshold</td>
<td>M</td>
<td>9.2.2.32</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-AI Indicator</td>
<td>O</td>
<td>BOOLEAN</td>
<td>TRUE means E-AIs are in use on the AICH. FALSE means E-AIs are not in use on the AICH.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Common E-DCH AICH Information</strong></th>
<th>0..1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
</tr>
<tr>
<td>&gt;&gt;AICH Transmission Timing</td>
<td>M</td>
<td>9.2.2.1</td>
</tr>
<tr>
<td>&gt;&gt;FDD DL Channelisation Code Number</td>
<td>M</td>
<td>9.2.2.14</td>
</tr>
<tr>
<td>&gt;&gt;AICH Power</td>
<td>M</td>
<td>9.2.2.9</td>
</tr>
<tr>
<td>&gt;&gt;STTD Indicator</td>
<td>M</td>
<td>9.2.2.48</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Common E-DCH F-DPCH Information</strong></th>
<th>0..1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;F-DPCH slot format</td>
<td>M</td>
<td>9.2.2.93</td>
</tr>
<tr>
<td>&gt;FDD TPC DL Step Size</td>
<td>M</td>
<td>9.2.2.16</td>
</tr>
<tr>
<td>&gt;Initial DL Transmission Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
</tr>
<tr>
<td>&gt;Maximum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
</tr>
<tr>
<td>&gt;Minimum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
</tr>
<tr>
<td>Common E-DCH E-AGCH Channelisation Code Number</td>
<td>O</td>
<td>FDD DL Channelisation Code Number 9.2.2.14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Common E-DCH Resource Combination Information</strong></th>
<th>0..&lt;max noofCommonE DCHs&gt;</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;Soffset</td>
<td>M</td>
<td>INTEGER (0..9...)</td>
</tr>
<tr>
<td>&gt;F-DPCH DL Code Number</td>
<td>M</td>
<td>FDD DL Channelisation</td>
</tr>
<tr>
<td>Code Number</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>9.2.2.14</td>
<td>UL DPCH Scrambling Code</td>
<td></td>
</tr>
<tr>
<td>9.2.2.59</td>
<td>E-RGCH/E-HICH Channelisation Code</td>
<td></td>
</tr>
<tr>
<td>9.2.2.14</td>
<td>E-RGCH Signature Sequence</td>
<td></td>
</tr>
<tr>
<td>9.2.2.14</td>
<td>E-HICH Signature Sequence</td>
<td></td>
</tr>
<tr>
<td>0..&lt;max no of CommonMAC Flows&gt;</td>
<td>UL Common MAC Flow Specific Information</td>
<td></td>
</tr>
<tr>
<td>9.2.2.79</td>
<td>Common MAC Flow ID</td>
<td></td>
</tr>
<tr>
<td>9.2.1.62A</td>
<td>Transport Bearer Request Indicator</td>
<td></td>
</tr>
<tr>
<td>9.2.1.4</td>
<td>Binding ID</td>
<td></td>
</tr>
<tr>
<td>9.2.1.63</td>
<td>Transport Layer Address</td>
<td></td>
</tr>
<tr>
<td>9.2.1.58A</td>
<td>TNL QoS</td>
<td></td>
</tr>
<tr>
<td>9.2.1.49</td>
<td>Payload CRC Presence Indicator</td>
<td></td>
</tr>
<tr>
<td>9.2.2.1Bb</td>
<td>Bundling Mode Indicator</td>
<td></td>
</tr>
<tr>
<td>9.2.2.105</td>
<td>Common E-DCH MAC-d Flow Specific Information</td>
<td></td>
</tr>
</tbody>
</table>

**Condition**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CQICyclek</td>
<td>The IE shall be present if the CQI Feedback Cycle k IE is set to a value greater than 0.</td>
</tr>
</tbody>
</table>
### 9.2.2.104 Common E-DCH System Information Response

The Common E-DCH System Information Response IE provides information for E-DCH configured for UE in Cell_FACH and Idle state that have been established or modified.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Common MAC Flow Specific Information Response</td>
<td>M</td>
<td>1..&gt;maxnoofCommonMACFlows &gt;&gt;</td>
<td>Common MAC Flow ID 9.2.2.79</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Serving Grant Value</td>
<td>M</td>
<td>INTEGER (0..37,38)</td>
<td>(0..37) indicates E-DCH serving grant index as defined in [32]; Index 38 is not allowed</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>E-RNTI List</td>
<td>O</td>
<td>9.2.2.139</td>
<td>The Node B shall not allocate any E-RNTIs listed in this IE for a UE</td>
<td>YES</td>
<td>ignore</td>
<td>–</td>
</tr>
</tbody>
</table>

### 9.2.2.105 Common E-DCH MAC-d Flow Specific Information

The Common E-DCH MAC-d Flow Specific Information IE is used for the establishment or modify Common E-DCH MAC-d flows.
### IE/Group Name and Presence

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Common E-DCH MAC-d Flow Specific Information</strong></td>
<td></td>
<td>1..&lt;maxno ofEDCHMACdFlows&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common E-DCH MAC-d Flow ID</td>
<td>M</td>
<td>E-DCH MAC-d Flow ID</td>
<td>9.2.1.74</td>
<td>The E-DCH MAC-d flow identity reserved for CCCH transmission is defined in [18].</td>
</tr>
<tr>
<td>&gt;Maximum Number Of Retransmissions For E-DCH</td>
<td>M</td>
<td>9.2.1.81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH HARQ Power Offset FDD</td>
<td>M</td>
<td>9.2.2.13Dk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow Multiplexing List</td>
<td>O</td>
<td>9.2.1.69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common E-DCH Logical Channel information</td>
<td></td>
<td>1..&lt;maxno oflogical channels&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Logical Channel ID</td>
<td>M</td>
<td>9.2.1.80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Maximum MAC-c PDU Size Extended</td>
<td>M</td>
<td>MAC PDU Size Extended</td>
<td>9.2.1.38C</td>
<td></td>
</tr>
</tbody>
</table>

### Range Bound and Explanation

<table>
<thead>
<tr>
<th>maxnoofEDCHMACdFlows</th>
<th>Maximum number of E-DCH MAC-d Flows</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnooflogicalchannels</td>
<td>Maximum number of logical channels</td>
</tr>
</tbody>
</table>

### 9.2.2.106 Maximum TB Size

The **Maximum TB Size** IE may be used by the scheduler in order to minimize the cell edge interference for cell edge users (and other users).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum TB Size cell edge users</td>
<td>M</td>
<td>INTEGER (0..5000,...)</td>
<td>Unit: Bits</td>
<td></td>
</tr>
<tr>
<td>Maximum TB Size other users</td>
<td>M</td>
<td>INTEGER (0..5000,...)</td>
<td>Unit: Bits</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.107 Enhanced UE DRX Capability

Void.

### 9.2.2.108 Enhanced UE DRX Information

The **Enhanced UE DRX Information** IE provides information for configuring the UE in Cell_FACH state to discontinuously receive HS-DSCH.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T321</td>
<td>M</td>
<td></td>
<td>ENUMERATED (100, 200, 400, 800, …)</td>
<td>Determines the time the UE waits until initiating DRX operation, in ms.</td>
</tr>
<tr>
<td>HS-DSCH DRX cycle</td>
<td>M</td>
<td></td>
<td>ENUMERATED (4, 8, 16, 32, …)</td>
<td>Determines the length of the DRX Cycle during DRX operation, in frames</td>
</tr>
<tr>
<td>HS-DSCH Rx burst</td>
<td>M</td>
<td></td>
<td>ENUMERATED (1, 2, 4, 8, 16, …)</td>
<td>Determines the period within the DRX Cycle that the UE continuously receives HS-DSCH, in frames</td>
</tr>
</tbody>
</table>

9.2.2.109  E-DPCCH Power Boosting Capability

This parameter defines the E-DPCCH Power Boosting Capability for a Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DPCCH Power Boosting Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (E-DPCCH Power Boosting Capable, E-DPCCH Power Boosting Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.110  SixtyfourQAM DL and MIMO Combined Capability

Void

9.2.2.111  HS-DSCH Preconfiguration Info

The *HS-DSCH Preconfiguration Info* IE provides information of the target cell preconfiguration in the Node B as defined in [18].
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sets of HS-SCCH Codes</td>
<td>1…&lt;max noofHSD SCH&gt;</td>
<td></td>
<td>Index 1 refers to the serving HS-DSCH cell Index 2…&lt;max noofHSD SCH&gt; refer to secondary serving HS-DSCH cells in the order as listed in 9.2.2.112 HS-DSCH Preconfiguration Setup. Max index is 2 in this 3GPP release.</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt; HS-SCCH Preconfigured Codes</td>
<td>1..&lt;max noofHSSC CHcodes&gt;</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Code Number</td>
<td>M</td>
<td>INTEGER (0..127)</td>
<td></td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt; SixtyfourQAM DL Usage Indicator</td>
<td>O</td>
<td>9.2.2.74B</td>
<td></td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt; HS-DSCH TB Size Table Indicator</td>
<td>O</td>
<td>9.2.2.18Ee</td>
<td>Applicable for multicarrier mode of operation.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt; MIMO N/M Ratio</td>
<td>O</td>
<td>9.2.2.96</td>
<td>Applicable for multicarrier mode of operation.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>HARQ Memory Partitioning</td>
<td>M</td>
<td>9.2.1.102</td>
<td></td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>E-DCH FDD DL Control Channel Information</td>
<td>O</td>
<td>9.2.2.13Dc</td>
<td>For the primary UL frequency in Dual-cell E-DCH mode of operation.</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>HARQ Preamble Mode Activation Indicator</td>
<td>O</td>
<td>9.2.2.18b</td>
<td>Only applicable for MIMO in single carrier mode of operation. Shall be ignored in multicarrier mode of operation.</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>MIMO N/M Ratio</td>
<td>O</td>
<td>9.2.2.96</td>
<td>Only applicable for MIMO in single carrier mode of operation. Shall be ignored in multicarrier mode of operation.</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Continuous Packet Connectivity HS-SCCH less Information Response</td>
<td>O</td>
<td>9.2.2.69</td>
<td></td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Additional E-DCH Preconfiguration Information</td>
<td>0..&lt;max noofE-DCH -1&gt;</td>
<td></td>
<td>For E-DCH on multiple frequencies in this Node B. E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. Index 1 correspond to the secondary serving HS-DSCH cells with index 2 in the IE Sets of HS-SCCH Codes. The list is in the order as listed in 9.2.2.112 HS-DSCH Preconfiguration Setup.</td>
<td>EACH</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH FDD DL Control Channel Information</td>
<td>M</td>
<td>9.2.2.13Dc</td>
<td>For the secondary UL frequency In Dual-cell E-DCH mode of operation.</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.2.112 HS-DSCH Preconfiguration Setup

The HS-DSCH Preconfiguration Setup IE indicates that the Node B shall preconfigure set(s) of HS-SCCH codes and may contain a list of secondary serving HS-DSCH cells to be preconfigured for Enhanced Service Cell Change. The Cell Change procedure for Dual Cell operation is described in [49].

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofHSSCCHcodes</td>
<td>Maximum number of HS-SCCH codes</td>
</tr>
<tr>
<td>maxnoofHSDSCH</td>
<td>Maximum number of Primary Serving plus Secondary Serving HS-DSCH cells for one UE</td>
</tr>
</tbody>
</table>
### 3GPP TS 25.433 version 9.5.0 Release 9

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-hs/ehs reset scheme</td>
<td>M</td>
<td>9.2.1.311a</td>
<td>ENUMERATED</td>
<td>MAC-hs/ehs reset handling at enhanced HS serving cell change: “Always” means always reset “Inter Node B Change” means Only reset at Inter NodeB cell change</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Physical Layer Category</td>
<td>M</td>
<td>9.2.1.38Ab</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC-hs Reordering Buffer Size for RLC-UM</td>
<td>M</td>
<td>9.2.1.31Ia</td>
<td>M</td>
<td>Preconfigured secondary serving HS-DSCH cell. maxnoofHSDSCH-1 is max 1 in this 3GPP release.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary Cells</td>
<td></td>
<td></td>
<td>0...&lt;maxnoofHSDSCH-1&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Secondary C-ID</td>
<td>M</td>
<td>9.2.1.9</td>
<td>O</td>
<td>C-ID of the preconfigured secondary serving HS-DSCH cell</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Num Secondary HS-SCCH Codes</td>
<td>O</td>
<td>9.2.2.74A</td>
<td>O</td>
<td>For the secondary serving HS-DSCH cell</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Sixtyfour QAM Usage Allowed Indicator</td>
<td>O</td>
<td>9.2.1.119</td>
<td>O</td>
<td>For the secondary serving HS-DSCH cell</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt; MIMO Activation Indicator</td>
<td>O</td>
<td>9.2.2.74A</td>
<td>O</td>
<td>The secondary serving HS-DSCH cell shall be pre-configured with E-DCH.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt; E-DCH Indicator</td>
<td>O</td>
<td>NULL</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Num Primary HS-SCCH Codes</td>
<td>O</td>
<td>9.2.2.18a</td>
<td>O</td>
<td>For the primary serving HS-DSCH cell</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HARQ Preamble Mode</td>
<td>O</td>
<td>9.2.1.119</td>
<td>O</td>
<td>In multicarrier mode of operation the IE is for the serving HS-DSCH cell</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIMO Activation Indicator</td>
<td>O</td>
<td>9.2.1.31ID</td>
<td>O</td>
<td>If not present, &quot;Indexed MAC-d PDU Size&quot; shall be assumed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-DSCH MAC-d PDU Size Format</td>
<td>O</td>
<td>9.2.2.74A</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sixtyfour QAM Usage Allowed Indicator</td>
<td>O</td>
<td>9.2.2.68</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UE with enhanced HS-SCCH support indicator</td>
<td>O</td>
<td>NULL</td>
<td>O</td>
<td>UE supports enhanced HS-SCCH functionality: - UE supports different HS-SCCH in consecutive TTIs and - in HS-SCCH-less operation mode the UE supports HS-SCCH orders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Packet</td>
<td>O</td>
<td>9.2.2.68</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.2.113 Multi Cell Capability Info

This parameter defines the Multi Cell capability information for a Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi Cell Capability</td>
<td>M</td>
<td>ENUMERATED</td>
<td>(Multi Cell Capable, Multi Cell non Capable)</td>
<td></td>
</tr>
<tr>
<td>Possible Secondary Serving Cell List</td>
<td></td>
<td>0..&lt;maxno ofHSDSCH-1&gt;</td>
<td>For secondary serving HS-DSCH cell.</td>
<td></td>
</tr>
<tr>
<td>&gt;Possible Secondary Serving Cell</td>
<td>M</td>
<td>Local Cell ID 9.2.1.38</td>
<td>Cells possible to serve in multicell adjacent carrier operation[22] (same sector)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.114 Minimum Reduced E-DPDCH Gain Factor

The minimum gain factor \( \beta_{ed,k,\text{reduced},\text{min}} \) defined in [10].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Reduced E-DPDCH Gain Factor</td>
<td></td>
<td>ENUMERATED</td>
<td>(8/15, 11/15, 15/15, 21/15, 30/15, 42/15, 60/15, 84/15, ...)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.115 IMB Parameters

The **IMB Parameters** IE contains specific parameters needed for 3.84Mcps MBSFN IMB operation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-frame number</td>
<td>M</td>
<td>INTEGRER (0..4,...)</td>
<td></td>
<td>In case of IMB using multiple channelization codes this IE indicates the last one as defined [18].</td>
</tr>
<tr>
<td>Last DL Channelisation Code Number</td>
<td>O</td>
<td>DL Channelisation Code Number 9.2.2.14</td>
<td></td>
<td>In case of IMB using multiple channelization codes this IE indicates the last one as defined [18].</td>
</tr>
</tbody>
</table>

### 9.2.2.116 Common E-DCH HS-DPCCH Capability

This parameter defines the HS-DPCCH capability for a Common E-DCH capable Local Cell.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common E-DCH HS-DPCCH Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (HS-DPCCH non-Capable, ACK-NACK Capable, ACK-NACK and CQI Capable)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.117 UE Support Indicator Extension

The **UE Support Indicator Extension** IE is used to indicate the support level in the UE for optional HSDPA functions to the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UE support indicator extension</td>
<td></td>
<td></td>
<td>BIT STRING (32)</td>
<td>Each bit indicates whether the UE supports a particular HSDPA function or not. The value 1 of a bit indicates that the corresponding functionality is supported in the UE and value 0 indicates that the corresponding functionality is not supported in the UE. Each bit is defined as follows: the first bit: Different HS-SCCH In Consecutive TTIs Support Indicator, the second bit: HS-SCCH orders in HS-SCCH-less Operation Support Indicator. Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.</td>
</tr>
</tbody>
</table>

### 9.2.2.118 MIMO Power Offset For S-CPICH Capability

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIMO Power Offset For S-CPICH Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (S-CPICH Power Offset Capable, S-CPICH Power Offset Not Capable)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.119 Power Offset For Secondary CPICH for MIMO

The **Power Offset For Secondary CPICH for MIMO** IE indicates the the relative transmit power of the S-CPICH compared to the primary CPICH transmit power, when S-CPICH is used as a phase reference for a second transmit antenna in MIMO mode [10].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Offset For Secondary CPICH for MIMO</td>
<td></td>
<td></td>
<td>INTEGER(-6 .. 0)</td>
<td>Offset in dB</td>
</tr>
</tbody>
</table>
9.2.2.120  MIMO Pilot Configuration Extension

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Pilot Configuration</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Primary and Secondary CPICH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Power Offset For Secondary CPICH for MIMO</td>
<td>M</td>
<td></td>
<td>9.2.2.119</td>
<td></td>
</tr>
<tr>
<td>&gt; Normal and Diversity Primary CPICH</td>
<td>NULL</td>
<td></td>
<td></td>
<td>This IE is not used in this release.</td>
</tr>
</tbody>
</table>

9.2.2.121  TX Diversity on DL Control Channels by MIMO UE Capability

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX Diversity on DL Control Channels by MIMO UE</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(DL Control Channel Tx Diversity for MIMO UE with non-diverse P-CPICH Capable, DL Control Channel Tx Diversity for MIMO UE with non-diverse P-CPICH Not Capable)</td>
</tr>
</tbody>
</table>

9.2.2.122  Single Stream MIMO Capability

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Stream MIMO Capability</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Single Stream MIMO Capable, Single Stream MIMO Non-Capable)</td>
</tr>
</tbody>
</table>

9.2.2.123  Single Stream MIMO Activation Indicator

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Stream MIMO Activation Indicator</td>
<td>M</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.124  Single Stream MIMO Mode Indicator

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Stream MIMO Mode Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Activate, Deactivate)</td>
</tr>
</tbody>
</table>

9.2.2.125  Dual Band Capability Info

This parameter defines the Dual Band capability information for a Local Cell.
IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description
--- | --- | --- | --- | ---
Dual Band Capability | M | ENUMERATED (Dual Band Capable, Dual Band non Capable) | For secondary serving HS-DSCH cell.
Possible Secondary Serving Cell List | 0..<maxno ofHSDSC H-1> | | Cells possible to serve in multicell Dual Band operation[22] (same sector)
>Possible Secondary Serving Cell | M | Local Cell ID 9.2.1.38 |

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
</table>
| maxnoofHSDSCH-1 | Maximum number of Secondary Serving HS-DSCH cells for one UE.

9.2.2.126 Void

9.2.2.127 HS-DSCH MAC-ehs Format

Void.

9.2.2.128 Activation Information

The Activation Information IE defines the local activation state of the secondary uplink frequency of the UE in Dual Cell E-DCH operation.

IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description
--- | --- | --- | --- | ---
Activation Information | 1..<maxno ofEDCH-1 > | ENUMERATED (Activated, De-activated, ... | The activation state of the secondary UL frequency
>Uu Activation State | M | |

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
</table>
| maxnoofEDCH-1 | Maximum number of uplink frequencies -1 for E-DCH for one UE.

9.2.2.129 Cell Capability Container

The Cell Capability Container IE indicates the cell capability by setting the corresponding bit in the BIT String.

The cell capability of multi-cell related functions may depend on that the cell also is multi-cell capable (adjacent carrier). These capability indicators shall be ignored if the cell is not Multi Cell Capable. These support indicators are indicated in the table below with /Multi-cell/. Cell Capability for the capabilities marked /Multi-cell/ indicates capability regardless of the supported multi-cell type in a multicell configuration for the local cell: supported multi-cell type is - both serving HS-DSCH and secondary serving HS-DSCH, - secondary serving HS-DSCH or - serving HS-DSCH.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Capability Container</td>
<td></td>
<td></td>
<td>BIT STRING (128)</td>
<td>Each bit indicates whether a cell supports a particular functionality or not. The value 1 of a bit indicates that the corresponding functionality is supported in a cell and value 0 indicates that the corresponding functionality is not supported in a cell. Each bit is defined as follows. The first bit: Cell Specific Tx Diversity Handling For Multi Cell Operation Capability /Multi-cell/. The second bit: Multi Cell and MIMO Capability/Multi-cell/. The third bit: Multi Cell and Single Stream MIMO Capability/Multi-cell/. The fourth bit: Multi Cell E-DCH Capability/Multi-cell/. This bit shall be ignored by the CRNC if the fifth bit: Separate Iub Transport Bearer Capability = &quot;0&quot; and the sixth bit: E-DCH UL Flow Multiplexing Capability = &quot;0&quot; The fifth bit: Separate Iub Transport Bearer Capability/Multi-cell/. This bit shall be ignored by the CRNC if the fourth bit: Multi Cell E-DCH Capability = &quot;0&quot; The sixth bit: E-DCH UL Flow Multiplexing Capability/Multi-cell/. This bit shall be ignored by the CRNC if the fourth bit: Multi Cell E-DCH Capability = &quot;0&quot; Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver. Note that Reserved bits are not considered as a spare bit. They shall however be set to 0 by the transmitter and shall be ignored by the receiver.</td>
</tr>
</tbody>
</table>

9.2.2.130 Multicell E-DCH Transport Bearer Mode

This parameter indicates the Multicell E-DCH Transport Bearer Mode. For Multicell E-DCH Transport Bearer Mode = "Separate Iub Transport Bearer Mode" the Mac-d flows from each carrier uses different Iub transport bearers, for Multicell E-DCH Transport Bearer Mode = "UL Flow Multiplexing Mode" the Mac-d flows received on the different carriers in the Node B is multiplexed on one Iub transport bearer (per Mac-d flow). The CRNC should apply the stored
cell capabilities for the cell on primary UL frequency for the capabilities related to Multicell E-DCH Transport Bearer Mode.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multicell E-DCH Transport Bearer Mode</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Separate Iub Transport Bearer Mode, UL Flow Multiplexing Mode)</td>
</tr>
</tbody>
</table>

### 9.2.2.131 Additional E-DCH FDD Setup Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL DPCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Scrambling Code</td>
<td>M</td>
<td>1</td>
<td>9.2.2.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL SIR Target</td>
<td>M</td>
<td>UL SIR</td>
<td>9.2.1.67A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional E-DCH RL Specific Information To Setup</td>
<td>M</td>
<td>9.2.2.132</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional E-DCH FDD Information</td>
<td>O</td>
<td>9.2.2.137</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F-DPCH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;FDD TPC DL Step Size</td>
<td>M</td>
<td>9.2.2.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Limited Power Increase</td>
<td>M</td>
<td>9.2.2.18A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Inner Loop DL PC Status</td>
<td>M</td>
<td>9.2.2.18B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multicell E-DCH Information</td>
<td>O</td>
<td>YES</td>
<td>9.2.2.140</td>
<td></td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.132 Additional E-DCH RL Specific Information To Setup

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Additional RL Specific Information</td>
<td></td>
<td>1..&lt;ma xnoofE DCHR Ls&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Additional RL ID</td>
<td>M</td>
<td>RL ID</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>O</td>
<td>9.2.1.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;First RLS Indicator</td>
<td>M</td>
<td>9.2.2.16A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Propagation Delay</td>
<td>O</td>
<td>9.2.2.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Code Information</td>
<td>M</td>
<td>FDD DL Code Information</td>
<td>9.2.2.14A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Initial DL Transmission Power</td>
<td>M</td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum DL Power</td>
<td>M</td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Minimum DL Power</td>
<td>M</td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;F-DPCH Slot Format</td>
<td>O</td>
<td>9.2.2.93</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RNTI</td>
<td>O</td>
<td>9.2.1.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Multicell E-DCH RL Specific Information</td>
<td>O</td>
<td>9.2.2.142</td>
<td>YES</td>
<td></td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.2.133 Additional E-DCH RL Specific Information To Add

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Additional RL Specific Information To Add</td>
<td></td>
<td></td>
<td>1..&lt;maxnoofEDCHRLs&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Additional RL ID</td>
<td>M</td>
<td></td>
<td>RL ID</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;C-ID</td>
<td>M</td>
<td></td>
<td>9.2.1.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Code Information</td>
<td>M</td>
<td></td>
<td>FDD DL Code Information</td>
<td>9.2.2.14A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Initial DL Transmission Power</td>
<td>O</td>
<td></td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum DL Power</td>
<td>O</td>
<td></td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Minimum DL Power</td>
<td>O</td>
<td></td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;F-DPCH Slot Format</td>
<td>O</td>
<td></td>
<td>9.2.2.93</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Multicell E-DCH RL Specific Information</td>
<td>O</td>
<td></td>
<td>9.2.2.142</td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
</tbody>
</table>

### 9.2.2.134 Additional E-DCH RL Specific Information To Modify

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Additional RL Specific Information To Modify</td>
<td></td>
<td></td>
<td>1..&lt;maxnoofEDCHRLs&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Additional RL ID</td>
<td>M</td>
<td></td>
<td>RL ID</td>
<td>9.2.1.53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Code Information</td>
<td>O</td>
<td></td>
<td>FDD DL Code Information</td>
<td>9.2.2.14A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum DL Power</td>
<td>O</td>
<td></td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Minimum DL Power</td>
<td>O</td>
<td></td>
<td>DL Power</td>
<td>9.2.1.21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;F-DPCH Slot Format</td>
<td>O</td>
<td></td>
<td>9.2.2.93</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Multicell E-DCH RL Specific Information</td>
<td>O</td>
<td></td>
<td>9.2.2.142</td>
<td>YES</td>
<td></td>
<td>ignore</td>
</tr>
</tbody>
</table>
9.2.2.135 Additional E-DCH FDD Information Response

The Additional E-DCH FDD Information Response IE provides information for new E-DCH radio links on the secondary UL frequency.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>E-DCH Additional RL Specific Information Response</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Additional RL ID</td>
<td>M</td>
<td>0..&lt;maxno_ofEDCHRLs&gt;</td>
<td>RL ID 9.2.1.53</td>
<td></td>
</tr>
<tr>
<td>&gt;Received Total Wide Band Power</td>
<td>M</td>
<td></td>
<td>9.2.2.39A</td>
<td></td>
</tr>
<tr>
<td>&gt;DL Power Balancing Activation Indicator</td>
<td>O</td>
<td></td>
<td>9.2.2.12C</td>
<td></td>
</tr>
<tr>
<td>&gt;RL Set ID</td>
<td>M</td>
<td></td>
<td>9.2.2.39</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH RL Set ID</td>
<td>M</td>
<td></td>
<td>RL Set ID 9.2.2.39</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH FDD DL Control Channel Information</td>
<td>M</td>
<td></td>
<td>9.2.2.13Dc</td>
<td></td>
</tr>
<tr>
<td><strong>Additional E-DCH MAC-d Flow Specific Information Response</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow ID</td>
<td>M</td>
<td></td>
<td>9.2.1.74</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td></td>
<td>9.2.1.4</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td></td>
<td>9.2.1.63</td>
<td></td>
</tr>
<tr>
<td>HARQ Process Allocation For 2ms Scheduled Transmission Grant</td>
<td>O</td>
<td></td>
<td>HARQ Process Allocation for 2ms TTI 9.2.2.13Dn</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofEDCHRLs</td>
<td>Maximum number of E-DCH RLs for one UE</td>
</tr>
<tr>
<td>maxnoofEDCHMACdFlows</td>
<td>Maximum number of MAC-d flows.</td>
</tr>
</tbody>
</table>
### 9.2.2.136 Additional E-DCH Configuration Change Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL DPCH Information</td>
<td>O</td>
<td>0..1</td>
<td>9.2.2.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Scrambling Code</td>
<td>O</td>
<td></td>
<td>9.2.2.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL SIR Target</td>
<td>O</td>
<td></td>
<td>UL SIR 9.2.1.67A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional E-DCH RL Specific Information To Add</td>
<td>O</td>
<td></td>
<td>9.2.2.133</td>
<td>Used when the E-DCH RL to add does not exist in the current Node B Communication Context on the secondary UL frequency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional E-DCH RL Specific Information To Modify</td>
<td>O</td>
<td></td>
<td>9.2.2.134</td>
<td>Used when an existing E-DCH RL on the secondary UL frequency is modified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional E-DCH FDD Information To Modify</td>
<td>O</td>
<td></td>
<td>9.2.2.137</td>
<td>Used to modify the current additional E-DCH configuration with or without a new RL added in this procedure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F-DPCH Information</td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;FDD TPC DL Step Size</td>
<td>M</td>
<td></td>
<td>9.2.2.16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Limited Power Increase</td>
<td>M</td>
<td></td>
<td>9.2.2.18A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Inner Loop DL PC Status</td>
<td>M</td>
<td></td>
<td>9.2.2.18B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multicell E-DCH Information</td>
<td>O</td>
<td></td>
<td>9.2.2.140</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.137 Additional E-DCH FDD Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional E-DCH MAC-d Flows Specific Information</td>
<td></td>
<td>0..&lt;max noofEDCHMACdFlows&gt;</td>
<td>9.2.1.74</td>
<td>Shall be ignored if bearer establishment with ALCAP</td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.74</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP</td>
<td></td>
</tr>
<tr>
<td>HARQ Process Allocation For 2ms Scheduled Transmission Grant</td>
<td>O</td>
<td>HARQ Process Allocation for 2ms TTI 9.2.2.13Dn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Maximum Bitrate</td>
<td>O</td>
<td>9.2.2.13T</td>
<td>For the concept of &quot;E-DCH Minimum Set of TFCs&quot; see [32] and [18]</td>
<td></td>
</tr>
<tr>
<td>E-DCH Processing Overload Level</td>
<td>O</td>
<td>9.2.1.79</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Minimum Set E-TFCI</td>
<td>O</td>
<td>INTEGER (0..127)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>max no of EDCH MAC-d Flows</td>
<td>Maximum number of MAC-d flows.</td>
</tr>
</tbody>
</table>
9.2.2.138 Additional E-DCH FDD Update Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARQ Process Allocation for 2ms Scheduled Transmission Grant</td>
<td>O</td>
<td></td>
<td>HARQ Process Allocation for 2ms TTI 9.2.2.13Dn</td>
<td></td>
</tr>
<tr>
<td>Additional E-DCH DL Control Channel Change Information</td>
<td>0..&lt;max noofEDCHRLs &gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Additional RL ID</td>
<td>M</td>
<td>RL ID</td>
<td>9.2.1.53</td>
<td></td>
</tr>
</tbody>
</table>

Range bound | Explanation
maxnoofEDCHRLs | Maximum number of E-DCH RLs for one UE

9.2.2.139 E-RNTI List

The E-RNTI List IE provides the list of E-RNTIs which can be allocated by CRNC.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-RNTI List</td>
<td></td>
<td>1..&lt;maxnooferNTIs &gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-RNTI</td>
<td>M</td>
<td></td>
<td>9.2.1.75</td>
<td></td>
</tr>
</tbody>
</table>

Range bound | Explanation
MaxnoofERNTIs | Maximum number of ERNTIs that can be allocated by the CRNC

9.2.2.140 Multicell E-DCH Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL Power Balancing Information</td>
<td>O</td>
<td></td>
<td>9.2.2.12B</td>
<td></td>
</tr>
<tr>
<td>Minimum Reduced E-DPDCH Gain Factor</td>
<td>O</td>
<td></td>
<td>9.2.2.114</td>
<td></td>
</tr>
<tr>
<td>Secondary UL Frequency Activation State</td>
<td>O</td>
<td>ENUMERATED (Activated, Deactivated,...)</td>
<td>Activation state signalled to Node B at setup of RL on secondary UL frequency</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.141 Additional Modified E-DCH FDD Information Response

The Additional Modified E-DCH FDD Information Response IE provides information for RLs on the secondary UL frequency that has been modified and existed in the Node B Communication Context configuration before the reconfiguration procedure.
### 9.2.2.142 Multicell E-DCH RL Specific Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended Propagation Delay</td>
<td>O</td>
<td>NULL</td>
<td>9.2.2.35A</td>
<td></td>
</tr>
<tr>
<td>Primary CPICH Usage For Channel Estimation</td>
<td>O</td>
<td>NULL</td>
<td>9.2.2.33A</td>
<td></td>
</tr>
<tr>
<td>Secondary CPICH Information</td>
<td>O</td>
<td>NULL</td>
<td>Common Physical Channel ID 9.2.1.13</td>
<td></td>
</tr>
<tr>
<td>Secondary CPICH Information Change</td>
<td>O</td>
<td>NULL</td>
<td>9.2.2.43A</td>
<td></td>
</tr>
<tr>
<td>E-AGCH Power Offset</td>
<td>O</td>
<td>NULL</td>
<td>9.2.2.13Id</td>
<td></td>
</tr>
<tr>
<td>E-RGCH Power Offset</td>
<td>O</td>
<td>NULL</td>
<td>9.2.2.13Ie</td>
<td></td>
</tr>
<tr>
<td>E-HICH Power Offset</td>
<td>O</td>
<td>NULL</td>
<td>9.2.2.13If</td>
<td></td>
</tr>
<tr>
<td>DL Reference Power</td>
<td>O</td>
<td>NULL</td>
<td>DL power 9.2.1.21</td>
<td>Power on DPCH or on F-DPCH</td>
</tr>
<tr>
<td>E-DCH DL Control Channel Grant</td>
<td>O</td>
<td>NULL</td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.2.143 Precoding Weight Set Restriction

This parameter defines the preferred precoding weight set restriction configuration as defined in [18].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precoding Weight Set Restriction</td>
<td>ENUMERATED</td>
<td>(Preferred, Not Preferred)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9.2.2.144 Non-Serving RL Preconfiguration Setup

The *Non-Serving RL Preconfiguration Setup* IE indicates that the Node B may preconfigure E-DCH DL Code Information configured for new non-serving RL for Enhanced Service Cell Change and contains the information for the location of new serving RL after the Enhanced Serving Cell Change.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE new Serving RL</td>
<td>M</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt; New Serving RL in the Node B</td>
<td></td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt; New Serving RL Not in the Node B</td>
<td></td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td>ignore</td>
</tr>
<tr>
<td>&gt; New Serving RL in the Node B or New Serving RL Not in the Node B</td>
<td></td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional E-DCH Non-Serving RL Preconfiguration Setup</td>
<td>O</td>
<td>NULL</td>
<td>YES</td>
<td></td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

9.2.2.145 Non-Serving RL Preconfiguration Info

The *Non-Serving RL Preconfiguration Info* IE provides information for the new non-serving RL after Enhanced Serving Cell Change.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>New non-serving RL E-DCH FDD DL Control Channel Information A</td>
<td>O</td>
<td></td>
<td>9.2.2.13Dc E-DCH FDD DL Control Channel Information</td>
<td>E-DCH FDD DL Control Channel Information for non-serving RL in Serving E-DCH RLS</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>New non-serving RL E-DCH FDD DL Control Channel Information B</td>
<td>O</td>
<td></td>
<td>9.2.2.13Dc E-DCH FDD DL Control Channel Information</td>
<td>E-DCH FDD DL Control Channel Information for non-serving RL in non serving E-DCH RLS in case serving RL is in the Node B</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>New non-serving RL E-DCH FDD DL Control Channel Information C</td>
<td>O</td>
<td></td>
<td>9.2.2.13Dc E-DCH FDD DL Control Channel Information</td>
<td>E-DCH FDD DL Control Channel Information for non-serving RL in case serving RL is not in the Node B</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Additional E-DCH New non-serving RL E-DCH FDD DL Control Channel Information</td>
<td>O</td>
<td></td>
<td>9.2.2.13Dc E-DCH FDD DL Control Channel Information</td>
<td>E-DCH on Secondary uplink frequency - max 1 in this 3GPP release. EACH ignore</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;New non-serving RL E-DCH FDD DL Control Channel Information A</td>
<td>O</td>
<td></td>
<td>9.2.2.13Dc E-DCH FDD DL Control Channel Information</td>
<td>E-DCH FDD DL Control Channel Information for Additional non-serving RL in Serving E-DCH RLS</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;New non-serving RL E-DCH FDD DL Control Channel Information B</td>
<td>O</td>
<td></td>
<td>9.2.2.13Dc E-DCH FDD DL Control Channel Information</td>
<td>E-DCH FDD DL Control Channel Information for Additional non-serving RL in non serving E-DCH RLS in case Additional serving RL is in the Node B</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;New non-serving RL E-DCH FDD DL Control Channel Information C</td>
<td>O</td>
<td></td>
<td>9.2.2.13Dc E-DCH FDD DL Control Channel Information</td>
<td>E-DCH FDD DL Control Channel Information for Additional non-serving RL in case Additional serving RL is not in the Node B</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>
9.2.3 TDD specific Parameters

9.2.3.1 Block STTD Indicator

Void.

9.2.3.2 Burst Type

Void.

9.2.3.3 CCTrCH ID

The CCTrCH ID for dedicated and shared channels identifies unambiguously an uplink or downlink CCTrCH inside a Radio Link. For S-CCPCH, it identifies unambiguously a downlink CCTrCH within a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCTrCH ID</td>
<td></td>
<td></td>
<td>INTEGER (0..15)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.4 Cell Parameter ID

The Cell Parameter ID identifies unambiguously the [3.84 Mcps TDD and 7.68Mcps TDD - Code Groups, Scrambling Codes, Midambles and Toffset] [1.28 Mcps TDD - SYNC-DL and SYNC-UL sequences, the scrambling codes and the midamble codes] (see ref. [20]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Parameter ID</td>
<td></td>
<td></td>
<td>INTEGER (0..127,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.4A Constant Value

The Constant Value is the power margin used by a UE to set the proper uplink power for a DCH, USCH, or a RACH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constant Value</td>
<td></td>
<td></td>
<td>INTEGER (-10...10,...)</td>
<td>Unit: dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Range: -10 .. +10 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Step: 1 dB</td>
</tr>
</tbody>
</table>

9.2.3.4B DL Timeslot ISCP

The DL Timeslot ISCP is the measured interference in a downlink timeslot at the UE, see ref. [5].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL Timeslot ISCP</td>
<td></td>
<td></td>
<td>INTEGER (0..91)</td>
<td>According to mapping in ref. [5].</td>
</tr>
</tbody>
</table>

9.2.3.4C DCH TDD Information

The *DCH TDD Information* IE provides information for DCHs to be established.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCH TDD Information</td>
<td></td>
<td>1..&lt;maxno ofDCHs&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Payload CRC Presence Indicator</td>
<td>M</td>
<td>9.2.1.49</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL FP Mode</td>
<td>M</td>
<td>9.2.1.66</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWS</td>
<td>M</td>
<td>9.2.1.61</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWE</td>
<td>M</td>
<td>9.2.1.60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DCH Specific Info</td>
<td></td>
<td>1..&lt;maxno ofDCHs&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;DCH ID</td>
<td>M</td>
<td>9.2.1.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td>UL CCTrCH in which the DCH is mapped</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td>DL CCTrCH in which the DCH is mapped</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transport Format Set</td>
<td>M</td>
<td>9.2.1.59</td>
<td>For UL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transport Format Set</td>
<td>M</td>
<td>9.2.1.59</td>
<td>For DL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Allocation/Retention Priority</td>
<td>M</td>
<td>9.2.1.1A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Frame Handling Priority</td>
<td>M</td>
<td>9.2.1.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;QE-Selector</td>
<td>C- CoorDCH</td>
<td>9.2.1.50A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Unidirectional DCH Indicator</td>
<td>O</td>
<td>9.2.1.68</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CoorDCH</td>
<td>The IE shall be present if this DCH is part of a set of coordinated DCHs (number of instances of the DCH Specific Info IE is greater than 1).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno of DCHs</td>
<td>Maximum number of DCHs for one UE</td>
</tr>
</tbody>
</table>

### 9.2.3.4D  DCHs TDD To Modify

The **DCHs TDD To Modify** IE provides information for DCHs to be modified.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCHs TDD To Modify</td>
<td></td>
<td>1..&lt;maxno ofDCHs&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL FP Mode</td>
<td>O</td>
<td>9.2.1.66</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWS</td>
<td>O</td>
<td>9.2.1.61</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWE</td>
<td>O</td>
<td>9.2.1.60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Bearer Request</td>
<td>M</td>
<td>9.2.1.62A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicator</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DCH Specific Info</td>
<td></td>
<td>1..&lt;maxno ofDCHs&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;DCH ID</td>
<td>M</td>
<td>9.2.1.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CCTrCH ID</td>
<td>O</td>
<td>9.2.3.3</td>
<td>UL CCTrCH in which the DCH is mapped</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CCTrCH ID</td>
<td>O</td>
<td>9.2.3.3</td>
<td>DL CCTrCH in which the DCH is mapped</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transport Format Set</td>
<td>O</td>
<td>9.2.1.59</td>
<td>For the UL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Transport Format Set</td>
<td>O</td>
<td>9.2.1.59</td>
<td>For the DL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Allocation/Retention</td>
<td>O</td>
<td>9.2.1.1A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Priority</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Frame Handling Priority</td>
<td>O</td>
<td>9.2.1.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>YES ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound** | **Explanation**
--- | ---
maxno of DCHs | Maximum number of DCHs for one UE

**9.2.3.4E DL Timeslot Information**

The *DL Timeslot Information* IE provides information for DL Time slot to be established.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL Timeslot Information</td>
<td></td>
<td>1..&lt;maxno of DLts&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Midamble Shift And Burst</td>
<td>M</td>
<td>9.2.3.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCI Presence</td>
<td>M</td>
<td>9.2.1.57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Code Information</td>
<td>M</td>
<td>TDD DL Code Information 9.2.3.19B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound** | **Explanation**
--- | ---
maxno of DLts | Maximum number of Downlink time slots per Radio Link

**9.2.3.4F DL Time Slot ISCP Info**

The *DL Time Slot ISCP Info* IE provides information for DL Interference level for each time slot within the Radio Link.
### 9.2.3.4G Cell Sync Burst Code

The **Cell Sync Burst Code** IE indicates which Code is used for a given Cell Sync Burst.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Sync Burst Code</td>
<td></td>
<td>INTEGER (0..7,… )</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.4H Cell Sync Burst Code Shift

The **Cell Sync Burst Code Shift** IE indicates the number of code shifts used for a given Cell Sync Burst.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Sync Burst Code Shift</td>
<td></td>
<td>INTEGER (0..7)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.4I CSB Measurement ID

The **CSB Measurement ID** IE uniquely identifies any cell synchronisation burst measurement per Node B Control Port.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSB Measurement ID</td>
<td></td>
<td>INTEGER (0..65535)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.4J Cell Sync Burst Repetition Period

The **Cell Sync Burst Repetition Period** IE represents the number of consecutive Radio Frames after which the cell synchronisation burst transmission/measurement is repeated. This means that if the Time Slot $K$ is assigned to the cell synchronisation burst transmission/measurements in the Radio Frame $J$, the cell synchronisation burst transmission/measurement is also in all the Radio Frames $J+n*Repetition Period$.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Sync Burst Repetition Period</td>
<td></td>
<td>INTEGER (0..4095)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.4K Cell Sync Burst SIR

Indicates the Signal to Interference Ratio of the cell synchronisation burst measurement according definition in [5].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Sync Burst SIR</td>
<td></td>
<td>INTEGER (0..31)</td>
<td></td>
<td>According to mapping in [23]</td>
</tr>
</tbody>
</table>
9.2.3.4L  Cell Sync Burst Timing

The *Cell Sync Burst Timing* IE defines the time of start (defined by the first detected path in time) of the cell synchronisation burst of a neighbouring cell see [5] for 3.84Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Phase</td>
<td></td>
<td></td>
<td></td>
<td>According to mapping in [23]</td>
</tr>
<tr>
<td>&gt;&gt;Initial Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cell Synch Burst Timing Value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..1048575,...)</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Steady State Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cell Synch Burst Timing Value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..255,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.4La  Cell Sync Burst Timing LCR

The *Cell Sync Burst Timing LCR* IE defines the time of start (defined by the first detected path in time) of the cell synchronisation burst of a neighbouring cell see [5] for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Phase</td>
<td></td>
<td></td>
<td></td>
<td>According to mapping in [23]</td>
</tr>
<tr>
<td>&gt;&gt;Initial Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cell Synch Burst Timing Value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..524287,...)</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Steady State Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Cell Synch Burst Timing Value</td>
<td>M</td>
<td></td>
<td>INTEGER (0..127,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.4M  Cell Sync Burst Timing Threshold

The *Cell Sync Burst Timing Threshold* IE defines the threshold that shall trigger a CELL SYNCHRONISATION REPORT message.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Sync Burst Timing Threshold</td>
<td></td>
<td></td>
<td>INTEGER (0..254)</td>
<td>Unit: chip Range: 0 .. 31.75 chips Step: 0.125 chip</td>
</tr>
</tbody>
</table>

9.2.3.4N  CSB Transmission ID

The *Cell Sync Burst Transmisson ID* IE uniquely identifies any cell synchronisation burst transmission per Node B Control Port.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSB Transmission ID</td>
<td></td>
<td></td>
<td>INTEGER (0..65535)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.4O  DL Timeslot Information LCR

The *DL Timeslot Information LCR* IE provides information for DL Time slot to be established.
### 9.2.3.24 DL Timeslot Information LCR

The **DL Timeslot Information LCR** IE provides information for DL Interference level for each time slot within the Radio Link.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL Timeslot Information LCR</td>
<td></td>
<td>1..&lt;maxnoofDLtsLCR &gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCI Presence</td>
<td>M</td>
<td>9.2.1.57</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Code Information</td>
<td>M</td>
<td>TDD DL Code Information LCR 9.2.3.19C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Initial DL Transmission Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Initial power on DPCH</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Maximum allowed power on DPCH</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Minimum DL Power</td>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td>Minimum allowed power on DPCH</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Range Bound

| maxnoofDLtsLCR | Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD. |

#### 9.2.3.4P DL Time Slot ISCP Info LCR

The **DL Time Slot ISCP Info LCR** IE provides information for DL Interference level for each time slot within the Radio Link.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL Time Slot ISCP Info LCR</td>
<td></td>
<td>1..&lt;maxnoofDLtsLCR &gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Timeslot ISCP</td>
<td>M</td>
<td>9.2.3.4B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Range Bound

| maxnoofDLtsLCR | Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD. |

#### 9.2.3.4Q UpPCH Position LCR

The **UpPCH Position LCR** IE indicates the start point of the UpPCH channel, where the step size is 16chips, the maximum allowed value that can be utilised is 127*16=2032chips, The reference point (UpPCH Position LCR =0) is the startpoint of the timeslot of UpPTS.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UpPCH Position LCR</td>
<td></td>
<td>INTEGER (0..127)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.3.5 DPCH ID

The DPCH ID identifies unambiguously a DPCH inside a Radio Link.
9.2.3.5a  DSCH ID

The DSCH ID uniquely identifies a DSCH within a Node B Communication Context.

9.2.3.5b  DSCH Information Response

The DSCH Information Response IE provides information for DSCHs that have been established or modified.

9.2.3.5A  DSCH TDD Information

The DSCH TDD Information IE provides information for DSCHs to be established.
9.2.3.5B DwPCH Power

DwPCH Power is the power that shall be used for transmitting the DwPCH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the DwPCH, the DwPCH power is the linear sum of the power that is used for transmitting the DwPCH on all branches.

### Table

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DwPCH Power</td>
<td></td>
<td></td>
<td>INTEGER (-150..+400,…)</td>
<td>Unit: dBm Range: -15 ..+40 dBm Step: 0.1 dB</td>
</tr>
</tbody>
</table>

9.2.3.5C Frame Adjustment Value

The Frame Adjustment Value IE represents the frame number correction within the initial synchronisation phase.

### Table

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame Adjustment Value</td>
<td></td>
<td></td>
<td>INTEGER (0..4095)</td>
<td>SFN_{new} = (SFN_{old} + Frame Adjustment Value) mod 4096</td>
</tr>
</tbody>
</table>

9.2.3.5D IPDL TDD Parameter

The IPDL TDD Parameter IE provides information about IPDL to be applied for 3.84Mcps TDD or 7.68Mcps TDD when activated.

### Table

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP SpacingTDD</td>
<td>M</td>
<td></td>
<td>ENUMERATED (30, 40, 50, 70, 100, ...)</td>
<td>See [21]</td>
</tr>
<tr>
<td>IP Start</td>
<td>M</td>
<td></td>
<td>INTEGER (0..4095)</td>
<td>See [21]</td>
</tr>
<tr>
<td>IP Slot</td>
<td>M</td>
<td></td>
<td>INTEGER (0..14)</td>
<td>See [21]</td>
</tr>
<tr>
<td>IP PCCPCH</td>
<td>M</td>
<td></td>
<td>ENUMERATED (Switch off 1 frame, Switch off 2 frames)</td>
<td>See [21]</td>
</tr>
<tr>
<td>Burst Mode parameters</td>
<td>O</td>
<td></td>
<td></td>
<td>9.2.1.5A</td>
</tr>
</tbody>
</table>

9.2.3.5E Max FPACH Power

Max FPACH Power is the maximum power that shall be used for transmitting the FPACH in a cell. The reference point is the antenna connector. If Transmit Diversity is applied to the FPACH, the Max FPACH Power is maximum of the linear sum of the power that is allowed for transmitting the FPACH on all branches.

### Table

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPACH Power</td>
<td></td>
<td></td>
<td>INTEGER (-150..+400,…)</td>
<td>Unit: dBm Range: -15 ..+40 dBm Step: 0.1 dB</td>
</tr>
</tbody>
</table>

9.2.3.5F HS-DSCH TDD Information

The HS-DSCH TDD Information IE is used for initial addition of HS-DSCH information to a Node B Communication Context.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH MAC-d Flows Information</td>
<td>M</td>
<td></td>
<td>9.2.1.31IA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UE Capabilities Information</td>
<td>f</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Physical Layer Category</td>
<td>M</td>
<td></td>
<td>9.2.1.31Ia</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;1.28 Mcps TDD Uplink Physical Channel Capability</td>
<td>O</td>
<td></td>
<td>9.2.3.5Gc</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;Number of Supported Carriers</td>
<td>O</td>
<td></td>
<td>ENUMERATED D (One-one carrier, One-three carrier, Three-three carrier, One-six carrier, Three-six carrier, Six-six carrier, ...)</td>
<td>Applicable to 1.28Mcps TDD only This IE indicates the number of carrier that UE can support at the same time, where 'One-three carrier' means the number of supported carrier is one for the uplink, and three for the downlink.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Multi-carrier HS-DSCH Physical Layer Category</td>
<td>O</td>
<td></td>
<td>9.2.1.31Ia</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;MIMO SF Mode Supported For HS-PDSCH dual stream</td>
<td>O</td>
<td></td>
<td>Enumerated (SF1, SF1/SF16)</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>&gt;UE TS0 Capability LCR</td>
<td>O</td>
<td></td>
<td>9.2.3.110</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>MAC-hs Reordering Buffer Size for RLC-UM</td>
<td>M</td>
<td></td>
<td>9.2.1.38Ab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDD ACK NACK Power Offset</td>
<td>M</td>
<td></td>
<td>9.2.3.18F</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-SICH SIR Target</td>
<td>O</td>
<td></td>
<td>UL SIR 9.2.1.67A</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>HS-SICH TPC step size</td>
<td>O</td>
<td></td>
<td>9.2.3.21a</td>
<td>Applicable to 1.28Mcps TDD only</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>HS-DSCH MAC-d PDU Size Format</td>
<td>O</td>
<td></td>
<td>9.2.1.31ID</td>
<td>If not present, &quot;Indexed MAC-d PDU Size&quot; shall be used.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>TSN-Length</td>
<td>O</td>
<td></td>
<td>9.2.3.5I</td>
<td>Applicable for 1.28Mcps TDD when using multiple frequencies</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>MIMO Activation Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.119</td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
</tbody>
</table>

### 9.2.3.5G HS-DSCH TDD Information Response

The HS-DSCH TDD Information Response provides information for HS-DSCH MAC-d flows that have been established or modified. It also provides additional HS-DSCH information determined within the Node B.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH MAC-d Flow Specific Information Response</td>
<td>0..&lt;max noofMA CdFlow s&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.31I</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Initial Capacity Allocation</td>
<td>O</td>
<td>9.2.1.31Ha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-SCCH Specific Information Response</td>
<td>0..&lt;max NoOfHS SCCHc codes&gt;</td>
<td>Not applicable to 1.28 Mcps TDD or 7.68Mcps TDD</td>
<td>GLOBAL reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td>9.2.3.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-SICH Information</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;HS SICH ID</td>
<td>M</td>
<td>9.2.3.5Gb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td>9.2.3.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS-SCCH Specific Information Response LCR per UARFCN</td>
<td>0..&lt;max HSDPA Frequency&gt;</td>
<td>Not applicable to 3.84 Mcps TDD or 7.68Mcps TDD See note1 below</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-SCCH Specific Information Response LCR</td>
<td>1..&lt;max NoOfHS SCCHc codes&gt;</td>
<td>Not applicable to 3.84 Mcps TDD or 7.68Mcps TDD GLOBAL reject</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;First TDD Channelisation Code</td>
<td>M</td>
<td>TDD Channelisation Code 9.2.3.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Second TDD Channelisation Code</td>
<td>M</td>
<td>TDD Channelisation Code 9.2.3.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;HS-SICH Information LCR</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;HS SICH ID</td>
<td>M</td>
<td>9.2.3.5Gb</td>
<td>If the Extended HS-SICH ID IE is included in the HS-SICH Information LCR IE, the HS-SICH ID IE shall be ignored.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Extended HS-SICH ID</td>
<td>O</td>
<td>9.2.3.5K</td>
<td>The Extended HS-SICH ID IE shall be used if the HS-SICH</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>IE/Group Name</td>
<td>Presence</td>
<td>Range</td>
<td>IE Type and Reference</td>
<td>Semantics Description</td>
<td>Criticality</td>
<td>Assigned Criticality</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------</td>
<td>---------</td>
<td>-----------------------</td>
<td>---------------------------------------------------------------------------------------</td>
<td>-------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>&gt;&gt;UsedFrequency</td>
<td>O</td>
<td></td>
<td>UARFCN 9.2.1.65</td>
<td>Applicable for 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency which is actually used by the HS-SCCH.</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>O</td>
<td></td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Applicable for 1.28Mcps TDD when using multiple frequencies. See note 2 below</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>HARQ Memory Partitioning per UARFCN</td>
<td></td>
<td></td>
<td>0..&lt;max HSDPA Frequency&gt;</td>
<td>See note 1 below</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HARQ Memory Partitioning</td>
<td>O</td>
<td></td>
<td>9.2.1.102</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>O</td>
<td></td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Applicable for 1.28Mcps TDD when using multiple frequencies. See note 2 below</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>HS-SCCH Specific Information Response 7.68Mcps</td>
<td></td>
<td></td>
<td>0..&lt;max NoOfHS SCCH codes&gt;</td>
<td>Not applicable to 3.84 Mcps TDD or 1.28Mcps TDD</td>
<td>GLOBAL</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Time Slot</td>
<td>M</td>
<td></td>
<td>9.2.3.23</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td></td>
<td>9.2.3.35</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Channelisation Code 7.68Mcps</td>
<td>M</td>
<td></td>
<td>TDD Channelisation Code 7.68Mcps 9.2.3.34</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;HS-SICH Information 7.68Mcps</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;HS SICH ID</td>
<td>M</td>
<td></td>
<td>9.2.3.5Gb</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Time Slot</td>
<td>M</td>
<td></td>
<td>9.2.3.23</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td></td>
<td>9.2.3.35</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;&gt;Channelisation Code 7.68Mcps</td>
<td>M</td>
<td></td>
<td>TDD Channelisation Code 7.68Mcps 9.2.3.34</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Multi-Carrier number</td>
<td>O</td>
<td></td>
<td>INTEGER(1..maxHSDPAFrequency)</td>
<td>Applicable for 1.28Mcps TDD when using multiple frequencies.</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>MIMO SF Mode for HS-PDSCH dual stream</td>
<td>O</td>
<td></td>
<td>Enumerated (SF1, SF1/SF16)</td>
<td>Applicable for 1.28Mcps TDD when MIMO is configured</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>MIMO Reference Signal Information</td>
<td>O</td>
<td></td>
<td>0..&lt;max NoOfHS SCCHc</td>
<td>Applicable for 1.28Mcps TDD when MIMO is configured</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>IE/Group Name</td>
<td>Presence</td>
<td>Range</td>
<td>IE Type and Reference</td>
<td>Semantics Description</td>
<td>Criticality</td>
<td>Assigned Criticality</td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
<td>-------</td>
<td>-----------------------</td>
<td>-----------------------</td>
<td>-------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>&gt;HS-SICH Reference Signal Information</td>
<td>M</td>
<td>9.2.3.103</td>
<td></td>
<td></td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>

Note 1: This information element is a simplified representation of the ASN.1. Repetition 1 and repetition 2 through maxHSDPAFrequency are represented by separate ASN.1 structures with different criticalities.

Note 2: The UARFCN IE in the HARQ Memory Partitioning per UARFCN IE has the same content as that in the HS-SCCH Specific Information Response LCR per UARFCN IE. They will be represented by one ASN.1 structure with same criticalities.

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofMACdFlows</td>
<td>Maximum number of HS-DSCH MAC-d flows.</td>
</tr>
<tr>
<td>maxnoofHSSCCHcodes</td>
<td>Maximum number of HS-SCCH codes</td>
</tr>
<tr>
<td>maxHSDPAfrequency</td>
<td>Maximum number of Frequencies that UE can support</td>
</tr>
</tbody>
</table>

9.2.3.5GA HS-DSCH TDD Update Information

The **HS-DSCH TDD Update Information** IE provides information for HS-DSCH to be updated. At least one IE shall be present.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SCCH Code Change Indicator</td>
<td>O</td>
<td>9.2.1.31K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDD ACK NACK Power Offset</td>
<td>O</td>
<td>9.2.3.18F</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.5Ga HS-SCCH ID

The HS-SCCH ID identifies unambiguously a HS-SCCH and its paired HS-SICH within the set of HS-SCCHs.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS SCCH ID</td>
<td></td>
<td></td>
<td>INTEGER (0..31)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.5Gb HS-SICH ID

The HS-SICH ID identifies unambiguously a HS-SICH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS SICH ID</td>
<td></td>
<td></td>
<td>INTEGER (0..31)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.5Gc 1.28 Mcps TDD Uplink Physical Channel Capability

The **1.28 Mcps TDD Uplink Physical Channel Capability** IE defines the UE uplink radio access capacity, see ref [33].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Number of timeslots per subframe</td>
<td>M</td>
<td>INTEGER (1..6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum number of physical channels per timeslot</td>
<td>M</td>
<td>ENUMERATED (one, two, ..., three, four)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9.2.3.5H  IPDL TDD Parameters LCR

The IPDL TDD Parameters LCR IE provides information about IPDL to be applied for 1.28Mcps TDD when activated.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP SpacingTDD</td>
<td>M</td>
<td>ENUMERATED</td>
<td>See [21]</td>
<td></td>
</tr>
<tr>
<td>IP Start</td>
<td>M</td>
<td>INTEGER</td>
<td>See [21]</td>
<td></td>
</tr>
<tr>
<td>IP_Sub</td>
<td>M</td>
<td>ENUMERATED</td>
<td>See [21]</td>
<td></td>
</tr>
<tr>
<td>Burst Mode Parameters</td>
<td>O</td>
<td>9.2.1.5A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.5I  TSN-Length

Indicates the TSN bits applied to the MAC-hs PDU frame.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSN-Length</td>
<td></td>
<td></td>
<td>ENUMERATED (tsn-6bits, tsn-9bits)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.5J  Extended HS-SCCH ID

The Extended HS-SCCH ID LCR identifies unambiguously a HS-SCCH and its paired HS-SICH within the set of HS-SCCHs in a cell for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended HS-SCCH ID</td>
<td></td>
<td>INTEGER(32..255)</td>
<td>The Extended HS-SCCH ID IE shall be used if the HS-SCCH identity has a value larger than 31.</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.5K  Extended HS-SICH ID

The Extended HS-SICH ID LCR identifies unambiguously a HS-SICH in a cell for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended HS-SICH ID</td>
<td></td>
<td>INTEGER(32..255)</td>
<td>The Extended HS-SICH ID IE shall be used if the HS-SICH identity has a value larger than 31.</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.6  Max PRACH Midamble Shift

Indicates the maximum number of Midamble shifts to be used in a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max PRACH Midamble Shift</td>
<td></td>
<td></td>
<td>ENUMERATED (4, 8,...,16)</td>
<td></td>
</tr>
</tbody>
</table>
9.2.3.7 Midamble Shift And Burst Type

This information element indicates burst type and midamble allocation for burst types 1, 2 and 3.

The 256 chip midamble supports 3 different time shifts, the 512 chips midamble may support 8 or even 16 time shifts.

Three different midamble allocation schemes exist:

Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Burst Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Type1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Midamble Configuration Burst Type 1 And 3</td>
<td>M</td>
<td></td>
<td>ENUMERATED (4, 8, 16)</td>
<td>As defined in [19]</td>
</tr>
<tr>
<td>&gt;&gt; CHOICE Midamble Allocation Mode</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Default Midamble</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Common Midamble</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; UE Specific Midamble</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Midamble Shift Long</td>
<td>M</td>
<td></td>
<td>INTEGER (0..15)</td>
<td></td>
</tr>
<tr>
<td>&gt; Type2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Midamble Configuration Burst Type 2</td>
<td>M</td>
<td></td>
<td>ENUMERATED (3, 6)</td>
<td>As defined in [19]</td>
</tr>
<tr>
<td>&gt;&gt; CHOICE Midamble Allocation Mode</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Default Midamble</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Common Midamble</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; UE Specific Midamble</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Midamble Shift Short</td>
<td>M</td>
<td></td>
<td>INTEGER (0..5)</td>
<td></td>
</tr>
<tr>
<td>&gt; Type3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Midamble Configuration Burst Type 1 And 3</td>
<td>M</td>
<td></td>
<td>ENUMERATED (4, 8, 16)</td>
<td>As defined in [19]</td>
</tr>
<tr>
<td>&gt;&gt; CHOICE Midamble Allocation Mode</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; Default Midamble</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt; UE Specific Midamble</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Midamble Shift Long</td>
<td>M</td>
<td></td>
<td>INTEGER (0..15)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.7A Midamble Shift LCR

This information element indicates midamble allocation in 1.28Mcps TDD.

Three different midamble allocation schemes exist:

Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)
IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description
--- | --- | --- | --- | ---
Midamble Allocation Mode | M | | ENUMERATED (Default midamble, Common midamble, UE specific midamble, …) | 
Midamble Shift Long | C-UE | | INTEGER (0..15) | 
Midamble Configuration LCR | M | | ENUMERATED (2, 4, 6, 8, 10, 12, 14, 16, …) | As defined in [19]

| Condition | Explanation |
--- | --- |
UE | The IE shall be present if the Midamble Allocation Mode IE is set to "UE-specific midamble".

### 9.2.3.7Aa Notification Indicator Length

The Notification Indicator Length indicates the number of symbols for Notification Indication transmitted in one timeslot (see ref [19]).

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
--- | --- | --- | --- | ---
Notification Indicator Length | | | ENUMERATED (2, 4, 8, …) |

### 9.2.3.7B Number Of Cycles Per SFN Period

The Number Of Cycles Per SFN Period IE indicates the number of repetitions per SFN period where the same schedule shall apply.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
--- | --- | --- | --- | ---
Number Of Cycles Per SFN Period | | | ENUMERATED (1, 2, 4, 8, …, 16, 32, 64) |

### 9.2.3.7C Number Of Repetitions Per Cycle Period

The Number Of Repetitions Per Cycle Period IE indicates the number of Sync frames per Cycle Length where the [3.84Mcps TDD - cell synchronisation bursts] [1.28Mcps TDD - Sync_DL Codes] shall be transmitted or the cell synchronisation bursts from the neighbouring cells shall be measured.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
--- | --- | --- | --- | ---
Number Of Repetitions Per Cycle Period | | | INTEGER (2..10) |

### 9.2.3.7D Number Of Subcycles Per Cycle Period

The Number Of Subcycles Per Cycle Period IE indicates the number of subcycles within a Synchronisation Cycle. Within each subcycle, the same sequence of SYNC_DL Code transmissions and receptions is performed.

| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
--- | --- | --- | --- | ---
Number Of Subcycles Per Cycle Period | | | INTEGER (1..16, …) |
9.2.3.8 Paging Indicator Length

The Paging Indicator Length indicates the number of symbols for Page Indication transmitted in one timeslot (see ref [19]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paging Indicator Length</td>
<td></td>
<td></td>
<td>ENUMERATED (2, 4, 8,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.9 PCCPCH Power

The Primary CCPCH power is the power that shall be used for transmitting the P CCPCH in a cell. The P CCPCH power is the reference power in a TDD-cell. The reference point is the antenna connector. If Transmit Diversity is applied to the Primary CCPCH, the Primary CCPCH power is the linear sum of the power that is used for transmitting the Primary CCPCH on all branches.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCCPCH Power</td>
<td></td>
<td></td>
<td>INTEGER (-150..+400,..)</td>
<td>Unit: dBm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Range: -15 ..+40 dBm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Step: 0.1 dB</td>
</tr>
</tbody>
</table>

9.2.3.10 PDSCH ID

The PDSCH ID identifies unambiguously a PDSCH inside a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDSCH ID</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.11 PDSCH Set ID

The PDSCH Set Id identifies unambiguously a PDSCH Set inside a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDSCH Set ID</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td>See ref. [6]</td>
</tr>
</tbody>
</table>

9.2.3.11A Primary CCPCH RSCP

Received Signal Code Power is the received power on PCCPCH of the target cell after despreading. The reference point for the RSCP is the antenna connector at the UE, see ref. [5].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary CCPCH RSCP</td>
<td></td>
<td></td>
<td>INTEGER (0..91)</td>
<td>According to mapping of the non-negative values in ref. [23].</td>
</tr>
</tbody>
</table>

9.2.3.11B Primary CCPCH RSCP Delta

Primary CCPCH RSCP Delta is the offset used to report the negative reporting range of P-CCPCH RSCP as per [23].
9.2.3.12 PUSCH ID

The PUSCH ID identifies unambiguously a PUSCH inside a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUSCH ID</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.13 PUSCH Set ID

The PUSCH Set ID identifies unambiguously a PUSCH Set inside a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUSCH Set ID</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td>See ref. [6]</td>
</tr>
</tbody>
</table>

9.2.3.14 PRACH Midamble

The PRACH Midamble indicates if only the Basic Midamble Sequence or also the time-inverted Midamble Sequence is used.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRACH Midamble</td>
<td></td>
<td></td>
<td>ENUMERATED (Inverted, Direct, …)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.14A Reference Clock Availability

The Reference Clock Availability IE is used to indicate the presence and operating of a Reference Clock connected to a TDD cell for cell synchronisation purpose.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Clock Availability</td>
<td></td>
<td></td>
<td>ENUMERATED (Available, Not Available)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.14B Reference SFN Offset

The Reference SFN Offset IE indicates the number of frames the reference SFN shall be shifted compared to the SFN derived from the synchronisation port.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference SFN Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
</tr>
</tbody>
</table>
9.2.3.15 Repetition Length

The Repetition Length represents the number of consecutive Radio Frames inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel see ref. [18].

[1.28Mcps TDD - When applied to configure the E-DCH Non-scheduled Grant Information, the Repetition Length represents the number of consecutive Subframes, i.e. 5ms inside a Repetition Period in which the same Time Slot is assigned to the same Physical Channel see ref. [18].]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repetition Length</td>
<td></td>
<td></td>
<td>INTEGER (1..63)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.16 Repetition Period

The Repetition Period represents the number of consecutive Radio Frames after which the same assignment scheme of Time Slots to a Physical Channel is repeated. This means that if the Time Slot $K$ is assigned to a physical channel in the Radio Frame $J$, it is assigned to the same physical channel also in all the Radio Frames $J+n*\text{Repetition Period}$ (where $n$ is an integer) see ref. [18].

[1.28Mcps TDD- When applied to configure the E-DCH Non-scheduled Grant Information, the Repetition Period represents the number of consecutive Subframes, i.e. 5ms after which the same assignment scheme of Time Slots to a Physical Channel is repeated see ref. [18].]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repetition Period</td>
<td></td>
<td></td>
<td>ENUMERATED (1, 2, 4, 8, 16, 32, 64,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.17 SCH Time Slot

The SCH Time Slot IE represents the first time slot ($k$) of a pair of time slots inside a Radio Frame that shall be assigned to the Physical Channel SCH. The SCH Time Slot IE is only applicable if the value of Sync Case IE is Case 2 since in this case the SCH is allocated in TS#$k$ and TS#$k+8$.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCH Time Slot</td>
<td></td>
<td></td>
<td>INTEGER (0..6)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.18 Sync Case

The SCH and PCCPCH are mapped on one or two downlink slots per frame. There are two cases of SCH and PCCPCH allocation as follows:

- Case 1) SCH and PCCPCH allocated in a single TS#$k$
- Case 2) SCH allocated in two TS: TS#$k$ and TS#$k+8$
  PCCPCH allocated in TS#$k$

[1.28Mcps TDD - There is no Sync Case indication needed for 1.28Mcps TDD. If the Sync Case IE must be included in a message from CRNC to Node B used for 1.28Mcps TDD, the CRNC should indicate Sync Case 1 and the Node B shall ignore it.]

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sync Case</td>
<td></td>
<td></td>
<td>INTEGER (1,2,...)</td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.3.18A Special Burst Scheduling

The number of frames between special burst transmissions during DTX.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special Burst Scheduling</td>
<td></td>
<td></td>
<td>INTEGER (1..256)</td>
<td>Number of frames between special burst transmission during DTX</td>
</tr>
</tbody>
</table>

### 9.2.3.18B SYNC_DL Code ID

The SYNC_DL Code ID identifies the SYNC_DL Code which used by DwPCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYNC_DL Code ID</td>
<td></td>
<td></td>
<td>INTEGER (1..32,...)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.18C Sync Frame Number

The Sync Frame Number IE indicates the number of the Sync frame within a Synchronisation Cycle or Subcycle, respectively, where the cell synchronisation bursts shall be transmitted or the cell synchronisation bursts from the neighbouring cells shall be measured.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sync Frame Number</td>
<td></td>
<td></td>
<td>INTEGER (1..10)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.18D Synchronisation Report Characteristics

The Synchronisation Report Characteristics IE defines how the reporting on measured [3.84Mcps TDD - cell synchronisation bursts] [1.28Mcps TDD - Sync_DL Codes] shall be performed.

Different methods shall apply for the measured [3.84Mcps TDD - cell synchronisation burst] [1.28Mcps TDD - Sync_DL Codes] reports. [3.84Mcps TDD - In the frequency acquisition phase the measurement report shall be sent when the frequency locking is completed.] In the initial phase and for the measurement on late-entrant cells an immediate report after the measured frame is expected.

In the steady-state phase measurement reports may be given after every measured frame, after every SFN period, after every cycle length or only when the requested threshold is exceeded.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synchronisation Report Characteristics Type</td>
<td>M</td>
<td></td>
<td>ENUMERATED (</td>
<td>Frame related, SFN period related,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cycle length related, Threshold</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>exceeding, Frequency Acquisition</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>completed, ...)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Threshold Exceeding</td>
<td>C-T</td>
<td></td>
<td></td>
<td>Threshold Exceeding</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Applies only to the Steady State Phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Cell Sync Burst Threshold Information</td>
<td>0..&lt;maxn</td>
<td></td>
<td></td>
<td>Mandatory for 3.84Mcps TDD. Not</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ofCellSy</td>
<td></td>
<td></td>
<td>Applicable to 1.28Mcps TDD.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ncBursts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sequence</td>
<td>Description</td>
<td>Type</td>
<td>Mandatory/Optional</td>
<td>Explanation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
<td>------</td>
<td>--------------------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sync Frame Number To Receive</td>
<td>Sync Frame Number</td>
<td>M</td>
<td>9.2.3.18C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Code</td>
<td></td>
<td>M</td>
<td>9.2.3.4G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Code Shift</td>
<td></td>
<td>M</td>
<td>9.2.3.4H</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Arrival Time</td>
<td></td>
<td>O</td>
<td>Cell Sync Burst Timing 9.2.3.4L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Sync Burst Timing Threshold</td>
<td></td>
<td>O</td>
<td>9.2.3.4M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYNC_DL Code Threshold Information LCR</td>
<td></td>
<td></td>
<td></td>
<td>GLOBAL ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sync Frame Number To Receive</td>
<td>Sync Frame Number</td>
<td>M</td>
<td>9.2.3.18C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYNC_DL Code Information LCR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYNC_DL Code ID</td>
<td></td>
<td>M</td>
<td>9.2.3.18B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYNC_DL Code ID Arrival Time</td>
<td></td>
<td>O</td>
<td>Cell Sync Burst Timing LCR 9.2.3.4La</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYNC_DL Code ID Timing Threshold</td>
<td></td>
<td>O</td>
<td>Cell Sync Burst Timing Threshold 9.2.3.4M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofCellSyncBursts</td>
<td>Maximum number of cell synchronisation burst per cycle for 3.84Mcps TDD</td>
</tr>
<tr>
<td>maxnoofreceptionsperSyncFrame</td>
<td>Maximum number of cell synchronisation burst receptions per Sync Frame for 3.84Mcps TDD</td>
</tr>
<tr>
<td>maxnoofSyncFramesLCR</td>
<td>Maximum number of SYNC Frames per repetition period for 1.28Mcps TDD</td>
</tr>
<tr>
<td>maxnoofreceptionsperSyncFrameLCR</td>
<td>Maximum number of SYNC_DL Code ID receptions per Sync Frame for 1.28Mcps TDD</td>
</tr>
</tbody>
</table>

9.2.3.18E Synchronisation Report Type

The Synchronisation Report Type IE represents the individual types of synchronisation reports that shall apply within the individual synchronisation phases. (see [17]).
### 9.2.3.18F TDD ACK NACK Power Offset

The **TDD ACK NACK Power Offset** IE indicates Power offset used in the UL in the HS-SICH between transmissions carrying positive and negative acknowledgements as per [18].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD ACK NACK Power Offset</td>
<td></td>
<td></td>
<td>INTEGER (-7..8,…)</td>
<td>Unit: dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Range: -7..8 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Step: 1 dB</td>
</tr>
</tbody>
</table>

### 9.2.3.19 TDD Channelisation Code

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD Channelisation Code</td>
<td></td>
<td></td>
<td>ENUMERATED ((1/1),</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(2/1), (2/2),</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(4/1), .. (4/4),</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(8/1), .. (8/8),</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(16/1), .. (16/16),..</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.19a TDD Channelisation Code LCR

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In 1.28Mcps TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code, that can have a spreading factor of 1, 2, 4, 8 or 16 and there is a choice between QPSK and 8PSK modulation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD Channelisation Code</td>
<td></td>
<td></td>
<td>ENUMERATED (QPSK, 8PSK, …)</td>
<td>Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD. 8PSK denotes 16QAM for S-CCPCH</td>
</tr>
<tr>
<td>Modulation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.19A TDD DPCH Offset

The Offset represents the phase information for the allocation of a group of dedicated physical channels. The **Offset Type** IE = "No Initial Offset" is used when a starting offset is not required and the TDD Physical channel offset for each DPCH in the CCTrCH shall be directly determined from the TDD DPCH Offset. The **Offset Type** IE = "Initial Offset" is used when a starting offset is required. The TDD DPCH Offset shall map to the CFN and the TDD Physical Channel Offset for each DPCH in this CCTrCH shall calculated by TDD DPCH Offset mod Repetition period, see ref. [18].
9.2.3.19B  TDD DL Code Information

The TDD DL Code Information IE provides DL Code information for the RL.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD DL Code Information</td>
<td></td>
<td>1..&lt;maxno ofDPCHs&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DPCH ID</td>
<td>M</td>
<td>9.2.3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Range Bound | Explanation
maxnoofDPCHs | Maximum number of DPCHs in one CCTrCH

9.2.3.19C  TDD DL Code Information LCR

The TDD DL Code Information LCR IE provides DL Code information for the RL.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD DL Code Information LCR</td>
<td></td>
<td>1..&lt;maxno ofDPCHsL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DPCH ID</td>
<td>M</td>
<td>9.2.3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD Channelisation Code LCR</td>
<td>M</td>
<td>9.2.3.19a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD DL DPCH Time Slot Format LCR</td>
<td>M</td>
<td>9.2.3.19D</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Range Bound | Explanation
maxnoofDPCHsLCR | Maximum number of DPCH in one CCTrCH for 1.28Mcps TDD

9.2.3.19D  TDD DL DPCH Time Slot Format LCR

TDD DL DPCH Time Slot Format LCR indicates the time slot formats used in DL DPCH for 1.28Mcps TDD (see ref. [19]). It also applies to PDSCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Modulation</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;QPSK</td>
<td></td>
<td></td>
<td>INTEGER (0..24,…)</td>
<td>For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE denotes MBSFN S-CCPCH time slot format , INTEGER (0..11,….).</td>
</tr>
<tr>
<td>&gt;&gt;QPSK TDD DL DPCH Time Slot Format LCR</td>
<td>M</td>
<td>INTEGER (0..24,…)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;8PSK</td>
<td></td>
<td></td>
<td>INTEGER (0..24,…)</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;8PSK TDD DL DPCH Time Slot Format LCR</td>
<td>M</td>
<td>INTEGER (0..24,…)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9.2.3.20  TDD Physical Channel Offset

The Offset represents the phase information for the allocation of a physical channel. (SFN mod Repetition Period = Offset) see ref. [18].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD Physical Channel Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..63)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.21  TDD TPC DL Step Size

This parameter indicates step size for the DL power adjustment (see ref. [21]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD TPC Downlink Step Size</td>
<td></td>
<td></td>
<td>ENUMERATED (1, 2, 3,...)</td>
<td>Unit: dB</td>
</tr>
</tbody>
</table>

9.2.3.21a TDD TPC UL Step Size

This parameter indicates step size for the UL power adjustment (see ref. [21]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD TPC Uplink Step Size</td>
<td></td>
<td></td>
<td>ENUMERATED (1, 2, 3,...)</td>
<td>Unit: dB</td>
</tr>
</tbody>
</table>

9.2.3.21A TDD UL Code Information

The TDD UL Code Information IE provides information for UL Code to be established.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD UL Code Information</td>
<td></td>
<td>1..&lt;maxno ofDPCHs&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DPCH ID</td>
<td>M</td>
<td>9.2.3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno of DPCHs</td>
<td>Maximum number of DPCHs in one CCTrCH</td>
</tr>
</tbody>
</table>

9.2.3.21B TDD UL Code Information LCR

The TDD UL Code Information LCR IE provides information for UL Code to be established.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD UL Code Information LCR</td>
<td></td>
<td>1..&lt;maxno ofDPCHsL&lt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DPCH ID</td>
<td>M</td>
<td>9.2.3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD Channelisation Code LCR</td>
<td>M</td>
<td>9.2.3.19a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TDD UL DPCH Time Slot Format LCR</td>
<td>M</td>
<td>9.2.3.21C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.3.21C TDD UL DPCH Time Slot Format LCR

TDD UL DPCH Time Slot Format LCR indicates the time slot formats used in UL DPCH for 1.28Mcps TDD (see ref. [19]). It also applies to PUSCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Modulation</td>
<td>M</td>
<td></td>
<td>INTEGER</td>
<td></td>
</tr>
<tr>
<td>&gt;QPSK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;QPSK TDD UL DPCH Time Slot Format LCR</td>
<td>M</td>
<td></td>
<td>INTEGER</td>
<td>(0..69,...)</td>
</tr>
<tr>
<td>&gt;8PSK</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;8PSK TDD UL DPCH Time Slot Format LCR</td>
<td>M</td>
<td></td>
<td>INTEGER</td>
<td>(0..24,...)</td>
</tr>
</tbody>
</table>

### 9.2.3.22 TFCI Coding

The TFCI Coding describes the way how the TFCI bits are coded. By default 1 TFCI bit is coded with 4 bits, 2 TFCI bits are coded with 8 bits, 3-5 TFCI bits are coded with 16 bits and 6-10 TFCI bits are coded with 32 bits.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TFCI Coding</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(4, 8, 16, 32,...)</td>
</tr>
</tbody>
</table>

### 9.2.3.22a Timing Adjustment Value

The Timing Adjustment Value IE indicates the timing correction within a Frame for 3.84Mcps TDD. Type 1 is used for the initial phase of Node B synchronisation. Type 2 is used for the steady-state phase of Node B synchronisation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Initial Phase</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Timing Adjustment Value</td>
<td>M</td>
<td></td>
<td>INTEGER</td>
<td>(0..1048575,...)</td>
</tr>
<tr>
<td>&gt;Steady State Phase</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Timing Adjustment Value</td>
<td>M</td>
<td></td>
<td>INTEGER</td>
<td>(0..255,...)</td>
</tr>
</tbody>
</table>

### 9.2.3.22b Timing Adjustment Value LCR

The Timing Adjustment Value LCR IE indicates the timing correction within a Frame for 1.28Mcps TDD. Type 1 is used for the initial phase of Node B synchronisation. Type 2 is used for the steady-state phase of Node B synchronisation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Initial Phase</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Timing Adjustment Value</td>
<td>M</td>
<td></td>
<td>INTEGER</td>
<td>(0..524287,...)</td>
</tr>
<tr>
<td>&gt;Steady State Phase</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Timing Adjustment Value</td>
<td>M</td>
<td></td>
<td>INTEGER</td>
<td>(0..127,...)</td>
</tr>
</tbody>
</table>
9.2.3.22A  Timing Advance Applied

Defines the need for Rx Timing Deviation measurement results to be reported in a particular cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timing Advance Applied</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Yes, No)</td>
</tr>
</tbody>
</table>

9.2.3.23  Time Slot

The Time Slot represents the minimum time interval inside a Radio Frame that can be assigned to a Physical Channel.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time Slot</td>
<td></td>
<td></td>
<td>INTEGER (0..14)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.24  Time Slot Direction

This parameter indicates whether the TS in the cell is used in Uplink or Downlink direction.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time Slot Direction</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(UL, DL, ...)</td>
</tr>
</tbody>
</table>

9.2.3.24A  Time Slot LCR

The Time Slot LCR is the number of the traffic time slot within a 5 ms subframe of LCR TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time Slot LCR</td>
<td></td>
<td></td>
<td>INTEGER (0..6)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.24B  Time Slot LCR Extension

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time Slot LCR Extension</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(ts7,...)</td>
</tr>
</tbody>
</table>

9.2.3.25  Time Slot Status

This parameter indicates whether the TS in the cell is active or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time Slot Status</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(Active, Not Active, ...)</td>
</tr>
</tbody>
</table>
### 9.2.3.26 Transmission Diversity Applied

Defines if Transmission Diversity on physical channels that may use closed loop transmit diversity is to be applied in a cell (see ref. [19]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission Diversity Applied</td>
<td></td>
<td></td>
<td>BOOLEAN</td>
<td>True: Transmission Diversity shall be applied in this Cell. False: Transmission Diversity shall not be applied in this Cell.</td>
</tr>
</tbody>
</table>

### 9.2.3.26A UL Timeslot ISCP

UL Timeslot ISCP is the measured interference in a uplink timeslot at the Node B, see ref. [5].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Timeslot ISCP</td>
<td></td>
<td>INTEGER (0..127)</td>
<td></td>
<td>According to mapping in [23].</td>
</tr>
</tbody>
</table>

### 9.2.3.26B UL PhysCH SF Variation

Indicates whether variation of SF in UL is supported by Radio Link or not.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL PhysCH SF Variation</td>
<td></td>
<td></td>
<td>ENUMERATED (SF_Variation_supported, SF_Variation_NOT_supported)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.26C UL Timeslot Information

The *UL Timeslot Information* IE provides information on the time slot allocation for an UL DPCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Timeslot Information</td>
<td></td>
<td>1..&lt;maxno ofULts&gt;</td>
<td>9.2.3.23</td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot</td>
<td>M</td>
<td></td>
<td>9.2.3.7</td>
<td></td>
</tr>
<tr>
<td>&gt;Midamble Shift And Burst Type</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCI Presence</td>
<td>M</td>
<td></td>
<td>9.2.1.57</td>
<td></td>
</tr>
<tr>
<td>&gt;UL Code Information</td>
<td>M</td>
<td></td>
<td>TDD UL Code Information 9.2.3.21A</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno ofULts</td>
<td>Maximum number of Uplink time slots per Radio Link</td>
</tr>
</tbody>
</table>

### 9.2.3.26D UL Time Slot ISCP Info

The *UL Time Slot ISCP Info* IE provides information for UL Interference level for each time slot within the Radio Link.
### 9.2.3.26E UL Timeslot Information LCR

The UL Timeslot Information IE provides information on the time slot allocation for an UL DPCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Timeslot Information LCR</td>
<td></td>
<td>1..&lt;maxno ofULtsLCR &gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Midamble Shift LCR</td>
<td>M</td>
<td>9.2.3.7A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCI Presence</td>
<td>M</td>
<td>9.2.1.57</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Code Information</td>
<td>M</td>
<td>TDD UL Code Information LCR 9.2.3.21B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;PLCCH Information</td>
<td>O</td>
<td>9.2.3.31</td>
<td></td>
<td></td>
<td>YES</td>
<td>reject</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofULtsLCR</td>
<td>Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD.</td>
</tr>
</tbody>
</table>

### 9.2.3.26F UL Time Slot ISCP Info LCR

The UL Time Slot ISCP Info LCR IE provides information for UL Interference level for each time slot within the Radio Link.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Time Slot ISCP Info LCR</td>
<td></td>
<td>1..&lt;maxno ofULtsLCR &gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Timeslot ISCP</td>
<td>M</td>
<td>9.2.3.26A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofULtsLCR</td>
<td>Maximum number of Uplink time slots per Radio Link for 1.28Mcps TDD</td>
</tr>
</tbody>
</table>

### 9.2.3.26G Uplink Synchronisation Frequency

The UL Synchronisation Frequency IE specifies the frequency of the adjustment of the uplink transmission timing.
9.2.3.26H Uplink Synchronisation Step Size

The *UL Synchronisation Step Size* IE specifies the step size to be used for the adjustment of the uplink transmission timing.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uplink Synchronisation Step Size</td>
<td></td>
<td></td>
<td>INTEGER (1..8)</td>
<td>Unit: 1/8 chip Step: 1</td>
</tr>
</tbody>
</table>

9.2.3.27 USCH ID

The USCH ID uniquely identifies a USCH within a Node B Communication Context.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>USCH ID</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.28 USCH Information

The *USCH Information* IE provides information for USCHs to be established.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>USCH Information</td>
<td>1..&lt;max noofUSCHs&gt;</td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;USCH ID</td>
<td>M</td>
<td>9.2.3.27</td>
<td></td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;CCTrCH ID</td>
<td>M</td>
<td>9.2.3.3</td>
<td>UL CCTrCH in which the USCH is mapped</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Format Set</td>
<td>M</td>
<td>9.2.1.59</td>
<td>For USCH</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Allocation/Retention Priority</td>
<td>M</td>
<td>9.2.1.1A</td>
<td></td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td></td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofUSCHs</td>
<td>Maximum number of USCHs for one UE</td>
</tr>
</tbody>
</table>

9.2.3.29 USCH Information Response

The *USCH Information Response* IE provides information for USCHs that have been established or modified.
### USCH Information Response

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>USCH Information Response</td>
<td>M</td>
<td>1..&lt;maxno ofUSCHs&gt;</td>
<td>9.2.3.27</td>
<td></td>
</tr>
<tr>
<td>&gt;USCH ID</td>
<td>M</td>
<td></td>
<td>9.2.1.4</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td></td>
<td>9.2.1.63</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td></td>
<td>9.2.1.63</td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**

<table>
<thead>
<tr>
<th>maxnoofUSCHs</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Maximum number of USCHs for one UE</td>
</tr>
</tbody>
</table>

### 9.2.3.30 SCTD Indicator

Indicates if SCTD antenna diversity is applied or not to beacon channels (see ref. [19]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCTD Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (active, inactive)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.31 PLCCH Information

The PLCCH Information IE carries a PLCCH assignment for a timeslot of an UL DCH-type CCTrCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Physical Channel ID</td>
<td>M</td>
<td></td>
<td>9.2.1.13</td>
<td></td>
</tr>
<tr>
<td>PLCCH Sequence Number</td>
<td>M</td>
<td></td>
<td>9.2.3.32</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.32 PLCCH Sequence Number

This sequence number represents a portion of a PLCCH used to signal TPC / SS bits to a single UE. A value of zero indicates that the PLCCH assignment has been deleted.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLCCH Sequence Number</td>
<td></td>
<td>INTEGER (0..14)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.33 Common Physical Channel ID 7.68Mcps

Common Physical Channel ID is the unique identifier for one common physical channel within a cell for 7.68Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Physical Channel ID 7.68 Mcps</td>
<td></td>
<td>INTEGER (0..511)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.34 TDD Channelisation Code 7.68Mcps

The Channelisation Code Number indicates which Channelisation Code is used for a given Physical Channel. In 7.68Mcps TDD the Channelisation Code is an Orthogonal Variable Spreading Factor code that can have a spreading factor of 1, 2, 4, 8, 16 or 32.
9.2.3.35 Midamble Shift And Burst Type 7.68Mcps

This information element indicates burst type and midamble allocation for burst types 1,2 and 3 for 7.68Mcps TDD.

Three different midamble allocation schemes exist:

Default midamble: the midamble is allocated by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble is allocated by layer 1 depending on the number of channelisation codes (possible in DL only)

UE specific midamble: a UE specific midamble is explicitly assigned (DL and UL)

---

### IE/Group Name

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD Channelisation Code</td>
<td></td>
<td>ENUMERATED((1/1), (2/1), (2/2), (4/1), ... (4/4), (8/1), ... (8/8), (16/1), ... (16/16), (32/1), ... (32,32),... )</td>
<td></td>
</tr>
</tbody>
</table>

---

### IE/Group Name

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Burst Type</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Type1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Configuration Burst Type 1 And 3</td>
<td>M</td>
<td>ENUMERATED (4, 8, 16)</td>
<td>As defined in [19]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Default Midamble</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Common Midamble</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;UE Specific Midamble</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift Long</td>
<td>M</td>
<td>INTEGER (0..15)</td>
<td></td>
</tr>
<tr>
<td>&gt;Type2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Configuration Burst Type 2</td>
<td>M</td>
<td>ENUMERATED (4, 8)</td>
<td>As defined in [19]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Default Midamble</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Common Midamble</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;UE Specific Midamble</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift Short</td>
<td>M</td>
<td>INTEGER (0..7)</td>
<td></td>
</tr>
<tr>
<td>&gt;Type3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Configuration Burst Type 1 And 3</td>
<td>M</td>
<td>ENUMERATED (4, 8, 16)</td>
<td>As defined in [19]</td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;Default Midamble</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;&gt;UE Specific Midamble</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Midamble Shift Long</td>
<td>M</td>
<td>INTEGER (0..15)</td>
<td></td>
</tr>
</tbody>
</table>

---

### 9.2.3.36 Common Physical Channel Status Information 7.68Mcps

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Physical Channel ID 7.68Mcps</td>
<td>M</td>
<td>9.2.3.33</td>
<td></td>
</tr>
<tr>
<td>Resource Operational State</td>
<td>M</td>
<td>9.2.1.52</td>
<td></td>
</tr>
<tr>
<td>Availability Status</td>
<td>M</td>
<td>9.2.1.2</td>
<td></td>
</tr>
</tbody>
</table>
9.2.3.37 Neighbouring TDD Cell Measurement Information 7.68Mcps

This IE provides information on the 7.68 Mcps TDD neighbouring cells used for the purpose of measurements. Since the measurement can be performed on every time slot and midamble shift, the **Time Slot IE** and **Midamble Shift And Burst Type 7.68Mcps IE** shall be included if available.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC-Id</td>
<td>M</td>
<td>9.2.1.65B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td>Correlates to Nt [15]</td>
<td></td>
</tr>
<tr>
<td>Cell Parameter ID</td>
<td>M</td>
<td>9.2.3.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time Slot</td>
<td>O</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midamble Shift And Burst Type 7.68Mcps</td>
<td>O</td>
<td>9.2.3.35</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.38 UL Timeslot Information 7.68Mcps TDD

The **UL Timeslot Information** IE provides information on the time slot allocation for an UL DPCH for 7.68Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Timeslot Information</td>
<td></td>
<td>1..&lt;maxno ofULts&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCI Presence</td>
<td>M</td>
<td>9.2.1.57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Code Information</td>
<td>M</td>
<td></td>
<td></td>
<td>TDD UL Code Information 7.68Mcps TDD</td>
</tr>
</tbody>
</table>

**Range Bound** | **Explanation**
--- | ---
maxnoofULts | Maximum number of Uplink time slots per Radio Link

9.2.3.39 DL Timeslot Information 7.68Mcps TDD

The **DL Timeslot Information** IE provides information for DL Time slot to be established for 7.68Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL Timeslot Information</td>
<td></td>
<td>1..&lt;maxno ofDLts&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Time Slot</td>
<td>M</td>
<td>9.2.3.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Midamble Shift And Burst Type 7.68Mcps</td>
<td>M</td>
<td>9.2.3.35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TFCI Presence</td>
<td>M</td>
<td>9.2.1.57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DL Code Information</td>
<td>M</td>
<td></td>
<td></td>
<td>TDD DL Code Information 7.68Mcps TDD</td>
</tr>
</tbody>
</table>

**Range Bound** | **Explanation**
--- | ---
maxnoofDLts | Maximum number of Downlink time slots per Radio Link
9.2.3.40 TDD UL Code Information 7.68Mcps TDD

The **TDD UL Code Information 7.68Mcps TDD** IE provides information for UL Code to be established for 7.68Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD UL Code Information</td>
<td></td>
<td>1..&lt;maxno ofDPCHs&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DPCH ID</td>
<td>M</td>
<td></td>
<td>9.2.3.5</td>
<td></td>
</tr>
<tr>
<td>&gt;TDD Channelisation Code</td>
<td>M</td>
<td>7.68Mcps</td>
<td>9.2.3.34</td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**
- `maxno ofDPCHs` Maximum number of uplink DPCHs in one CCTrCH at 7.68Mcps

9.2.3.41 TDD DL Code Information 7.68Mcps TDD

The **TDD Code Information 7.68Mcps TDD** IE provides DL Code information for the RL for 7.68Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDD DL Code Information</td>
<td></td>
<td>1..&lt;maxno ofDPCHs&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;DPCH ID</td>
<td>M</td>
<td></td>
<td>9.2.3.5</td>
<td></td>
</tr>
<tr>
<td>&gt;TDD Channelisation Code</td>
<td>M</td>
<td>7.68Mcps</td>
<td>9.2.3.34</td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**
- `maxno ofDPCHs768` Maximum number of downlink DPCHs in one CCTrCH at 7.68Mcps

9.2.3.42 DPCH ID 7.68Mcps

The **DPCH ID 7.68Mcps** identifies unambiguously a DPCH inside a downlink Radio Link for 7.68Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPCH ID</td>
<td></td>
<td></td>
<td>INTEGER (0..479)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.43 PDSCH ID 7.68Mcps

The **PDSCH ID 7.68Mcps** identifies unambiguously a PDSCH inside a cell for 7.68Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDSCH ID</td>
<td></td>
<td></td>
<td>INTEGER (0..511)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.44 Max E-RUCCH Midamble Shift

Indicates the maximum number of Midamble shifts to be used in a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max E-RUCCH Midamble Shift</td>
<td></td>
<td></td>
<td>ENUMERATED</td>
<td>(4, 8,...,16)</td>
</tr>
</tbody>
</table>
9.2.3.45 E-PUCH Information

The *E-PUCH Information* IE provides parameters to configure the E-PUCH physical channel for 3.84Mcps TDD and 7.68 Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum code rate</td>
<td>M</td>
<td>INTEGER (0..63)</td>
<td>Unit: -</td>
<td>Range: 0.055 ..1 Step: 0.015</td>
</tr>
<tr>
<td>Maximum code rate</td>
<td>M</td>
<td>INTEGER (0..63)</td>
<td>Unit: -</td>
<td>Range: 0.055 ..1 Step: 0.015</td>
</tr>
<tr>
<td>HARQ Info for E-DCH</td>
<td>M</td>
<td>ENUMERATED (rv0, rvtable)</td>
<td>'rv0' indicates that the UE will only use E_DCH RV index 0. 'rvtable' indicates that the UE will use an RSN based RV index as specified in [8]</td>
<td></td>
</tr>
<tr>
<td>$N_{E,UCCCH}$</td>
<td>M</td>
<td>INTEGER (1..12)</td>
<td>Number of slots that are required to carry TPC and TFCI (consecutively allocated slots beginning with the first).</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.45a E-PUCH Information LCR

The *E-PUCH Information LCR* IE provides parameters to configure the E-PUCH physical channel for 1.28Mcps TDD.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum code rate</td>
<td>M</td>
<td></td>
<td>INTEGER (0..63)</td>
<td>Unit: - Range: 0.055 ..1 Step: 0.015</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>Maximum code rate</td>
<td>M</td>
<td></td>
<td>INTEGER (0..63)</td>
<td>Unit: - Range: 0.055 ..1 Step: 0.015</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>HARQ info for E-DCH</td>
<td>M</td>
<td></td>
<td>ENUMERATED (rv0, rvtable)</td>
<td>‘rv0’ indicates that the UE will only use E_DCH RV index 0. ‘rvtable’ indicates that the UE will use an RSN based RV index as specified in [8]</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>PRXdes_base</td>
<td>M</td>
<td></td>
<td>INTEGER (-112..-50)</td>
<td>dBm. Reference Desired RX power level for E-PUCfH. Reference to Pe-base in [21]</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>E-PUCH TPC Step Size</td>
<td>M</td>
<td></td>
<td>TDD TPC UL Step Size</td>
<td>9.2.3.21a</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>E-AGCH TPC Step Size</td>
<td>M</td>
<td></td>
<td>TDD TPC DL Step Size</td>
<td>9.2.3.21</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>E-PUCH Power Control GAP</td>
<td>O</td>
<td></td>
<td>INTEGER (1..255)</td>
<td>Unit: Number of subframes. Reference to E-PUCfH Power Control for 1.28Mcsps TDD in [21]. If it is not present, UE shall deem it to be infinite in which case closed loop power control shall always be used.</td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

**9.2.3.46 E-TFCS Information TDD**

Whereas the related E-DCH Transport Block sizes are standardised in [32] this IE gives details on the Reference Betas.
### Reference Beta Information

#### QPSK

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Beta Information</td>
<td></td>
<td>1..&lt;maxno ofRefbetas&gt;</td>
<td>INTEGER (0..10)</td>
<td>Unit: - Range: 0 ..1 Step: 0.1</td>
</tr>
<tr>
<td>&gt;Reference Code Rate</td>
<td>M</td>
<td></td>
<td>INTEGER(-15..16)</td>
<td>Unit: - Range: -15..+16 Step: 1 dB</td>
</tr>
</tbody>
</table>

#### 16QAM

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Beta Information</td>
<td></td>
<td>1..&lt;maxno ofRefbetas&gt;</td>
<td>INTEGER (0..10)</td>
<td>Unit: - Range: 0 ..1 Step: 0.1</td>
</tr>
<tr>
<td>&gt;Reference Code Rate</td>
<td>M</td>
<td></td>
<td>INTEGER(-15..16)</td>
<td>Unit: - Range: -15..+16 Step: 1 dB</td>
</tr>
</tbody>
</table>

**Range Bound**

| maxnoofRefbetas | Maximum number of signalled reference betas |

### E-DCH MAC-d Flows Information TDD

The *E-DCH MAC-d Flows Information TDD* IE is used for the establishment of E-DCH MAC-d flows for TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>E-DCH MAC-d Flow Specific Information</strong></td>
<td></td>
<td>1..&lt;maxno ofEDCHM ACdFlows&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow ID</td>
<td>M</td>
<td></td>
<td>9.2.1.74</td>
<td></td>
</tr>
<tr>
<td>&gt;Allocation/Retention Priority</td>
<td>M</td>
<td></td>
<td>9.2.1.1A</td>
<td></td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td></td>
<td>9.2.1.58A</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td></td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td></td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;Payload CRC Presence Indicator</td>
<td>M</td>
<td></td>
<td>9.2.1.49</td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Number Of Retransmissions For E-DCH</td>
<td>M</td>
<td>9.2.1.81</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH HARQ Power Offset TDD</td>
<td>M</td>
<td></td>
<td>9.2.3.61</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow Multiplexing List</td>
<td>O</td>
<td>9.2.1.69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Grant TypeTDD</td>
<td>M</td>
<td></td>
<td>9.2.3.53</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Logical Channel Information</td>
<td>M</td>
<td></td>
<td>9.2.1.71</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow Retransmission Timer</td>
<td>O</td>
<td>9.2.3.61a</td>
<td>Mandatory for LCR TDD. Not applicable for 3.84Mcps TDD and 7.68Mcps TDD.</td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**

| maxnoofEDCHMACdFlows | Maximum number of E-DCH MAC-d flows |

### E-DCH Non-scheduled Grant Information TDD

The *E-DCH Non-scheduled Grant Information TDD* IE is used to specify the details of a non-scheduled grant for TDD.
### E-DCH Non-scheduled Grant Information LCR TDD

Only for 1.28Mcps TDD. The *E-DCH Non-scheduled Grant Information LCR TDD* IE is used to specify the details of a non-scheduled grant for 1.28Mcps TDD.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeslot Resource Related Information LCR</td>
<td>M</td>
<td>9.2.3.54a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Resource Related Information</td>
<td>M</td>
<td>9.2.3.55</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subframe Number</td>
<td>M</td>
<td>ENUMERALTED (0,1)</td>
<td></td>
<td>Used to indicate from which subframe of the Radio Frame indicated by TDD E-PUCH Offset IE the physical resources are assigned to the E-DCH Non-scheduled Grant.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDD E-PUCH Offset</td>
<td>M</td>
<td>9.2.3.56</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDD Channelisation Code</td>
<td>M</td>
<td>9.2.3.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N\textsubscript{NE-UCCH}</td>
<td>M</td>
<td>INTEGER (1..8)</td>
<td></td>
<td>Number of E-UCCH and TPC instances within an E-DCH TTI. Details are described in [19].</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-HICH Information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-HICH ID TDD</td>
<td>M</td>
<td>9.2.3.51a</td>
<td></td>
<td>If the Extended E-HICH ID TDD IE is included in the E-HICH Information IE, the E-HICH ID TDD IE shall be ignored.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Signature Sequence Group Index</td>
<td>M</td>
<td>INTEGER (0..19)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Extended E-HICH ID TDD</td>
<td>O</td>
<td>9.2.3.51b</td>
<td></td>
<td>Applicable to 1.28Mcps TDD only, the Extended E-HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31.</td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

9.2.3.49 E-DCH TDD Information

The E-DCH TDD Information specifies the details of the maximum bit rate and processing overload level.
### 9.2.3.49a E-DCH TDD Information LCR

Only for 1.28Mcps TDD. The *E-DCH TDD Information LCR* IE specifies the details of the UE physical layer category, Node B processing overload level and power offset, Maximum Number of Retransmission and E-DCH Retransmission timer for scheduling info. The *E-AGCH Inactivity Monitor Threshold* IE is used for E-AGCH channel monitoring control for scheduled transmission.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH TDD Maximum Bitrate</td>
<td>O</td>
<td></td>
<td>9.2.3.57</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Processing Overload Level</td>
<td>O</td>
<td></td>
<td>9.2.1.79</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Power Offset for Scheduling Info</td>
<td>O</td>
<td></td>
<td>9.2.1.85</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Physical Layer Category LCR</td>
<td>O</td>
<td></td>
<td>9.2.3.67</td>
<td>If the Extended E-DCH Physical Layer Category LCR IE is included in the E-DCH TDD Information LCR IE, the E-DCH Physical Layer Category LCR IE shall be ignored.</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>E-DCH Processing Overload Level</td>
<td>O</td>
<td></td>
<td>9.2.1.79</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>E-DCH Power Offset for Scheduling Info</td>
<td>O</td>
<td></td>
<td>9.2.1.85</td>
<td></td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Extended E-DCH Physical Layer Category LCR</td>
<td>O</td>
<td></td>
<td>9.2.3.67A</td>
<td>The Extended E-DCH Physical Layer Category LCR IE shall be used if the E-DCH Physical Layer Category has a value larger than 5.</td>
<td>YES, reject</td>
<td></td>
</tr>
<tr>
<td>Maximum Number of Retransmission for Scheduling Info LCR</td>
<td>O</td>
<td></td>
<td>9.2.1.81</td>
<td>Maximum Number of Retransmissions for E-DCH</td>
<td>YES, ignore</td>
<td></td>
</tr>
<tr>
<td>E-DCH Retransmission timer for Scheduling Info LCR</td>
<td>O</td>
<td></td>
<td>E-DCH MAC-d Flow Retransmission Timer 9.2.3.61a</td>
<td></td>
<td>YES, ignore</td>
<td></td>
</tr>
<tr>
<td>E-AGCH Inactivity Monitor Threshold</td>
<td>O</td>
<td></td>
<td>Enumerated (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, spare5, ..., infinity)</td>
<td>Units of subframes.</td>
<td>YES, ignore</td>
<td></td>
</tr>
</tbody>
</table>
9.2.3.50  E-DCH TDD Information Response

The **E-DCH TDD Information Response** IE provides information for E-DCH MAC-d flows that have been established or modified. It also provides additional E-DCH information determined within the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH TDD MAC-d Flow Specific Information Response</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow ID</td>
<td>M</td>
<td></td>
<td>9.2.1.74</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td></td>
<td>9.2.1.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td></td>
<td>9.2.1.63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-AGCH Specific Information Response TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-AGCH ID TDD</td>
<td>M</td>
<td></td>
<td>9.2.3.51</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-RNTI</td>
<td>M</td>
<td></td>
<td>9.2.1.75</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scheduled E-HICH Specific Information Response 1.28Mcps TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;EI</td>
<td>M</td>
<td></td>
<td>INTEGER (0..3)</td>
<td>E-HICH indication which is used to indicate UE on which E-HICH the feedback info is carried.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-HICH ID TDD</td>
<td>M</td>
<td></td>
<td>9.2.3.51a</td>
<td>If the Extended E-HICH ID TDD IE is included in the E-HICH Information IE, the E-HICH ID TDD IE shall be ignored</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Extended E-HICH ID TDD</td>
<td>O</td>
<td></td>
<td>9.2.3.51b</td>
<td>Applicable to 1.28Mcps TDD only, the Extended E-HICH ID TDD IE shall be used if the E-HICH identity has a value larger than 31.</td>
<td>YES</td>
<td>ignore</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofEDCHMACdFlows</td>
<td>Maximum number of MAC-d flows</td>
</tr>
<tr>
<td>maxnoofEAGCHcodes</td>
<td>Maximum number of E-AGCHs assigned to one UE</td>
</tr>
<tr>
<td>maxNoOfEHICHcodes</td>
<td>Maximum number of E-HICHs assigned to one UE</td>
</tr>
</tbody>
</table>

9.2.3.51  E-AGCH ID TDD

The **E-AGCH ID** identifies unambiguously an E-AGCH inside a cell for TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-AGCH ID</td>
<td></td>
<td></td>
<td>INTEGER (0..31,...,32..255)</td>
<td></td>
</tr>
</tbody>
</table>
9.2.3.51a E-HICH ID TDD

The *E-HICH ID TDD* IE identifies unambiguously an E-HICH inside a cell for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-HICH ID TDD</td>
<td></td>
<td></td>
<td>INTEGER (0..31)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.51b Extended E-HICH ID TDD

The *Extended E-HICH ID TDD* IE identifies unambiguously an E-HICH inside a cell for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended E-HICH ID TDD</td>
<td></td>
<td></td>
<td>INTEGER (32..255)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.52 E-DCH TDD Information to Modify

The *E-DCH TDD Information to Modify* IE is used for the modification of an E-DCH.
### IE/Group Name

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH MAC-d Flow Specific Information</td>
<td>0..&lt;maxno ofEDCHMACdFlows</td>
<td>9.2.1.74</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.1.74</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Allocation/Retention Priority</td>
<td>O</td>
<td>9.2.1.1A</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Bearer Request Indicator</td>
<td>M</td>
<td>9.2.1.62A</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Number Of Retransmissions for E-DCH</td>
<td>O</td>
<td>9.2.1.81</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH HARQ Power Offset TDD</td>
<td>O</td>
<td>9.2.3.61</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow Multiplexing List</td>
<td>O</td>
<td>9.2.1.69</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Grant Type</td>
<td>O</td>
<td>9.2.3.53</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Logical Channel To Add</td>
<td>O</td>
<td>9.2.1.71</td>
<td>E-DCH Logical Channel Information</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>&gt;E-DCH Logical Channel To Modify</td>
<td>O</td>
<td>9.2.1.72</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH Logical Channel To Delete</td>
<td>0..&lt;maxno of logical channels</td>
<td>9.2.1.80</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Logical Channel ID</td>
<td>M</td>
<td>9.2.1.80</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow Retransmission Timer</td>
<td>O</td>
<td>9.2.3.61a</td>
<td>LCR TDD only.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>MAC-e Reset Indicator</td>
<td>O</td>
<td>9.2.1.83</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>E-DCH MAC-d PDU Size Format</td>
<td>O</td>
<td>9.2.1.74B</td>
<td>YES reject</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

### Range Bound

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofEDCHMACdFlows</td>
<td>Maximum number of E-DCH MAC-d flows</td>
</tr>
<tr>
<td>maxnooflogicalchannels</td>
<td>Maximum number of logical channels</td>
</tr>
</tbody>
</table>

### 9.2.3.53 E-DCH Grant Type TDD

The **E-DCH Grant Type** identifies whether a MAC-d flow is scheduled or non-scheduled.

### 9.2.3.54 Timeslot Resource Related Information

The **Timeslot Resource Related Information** is a bitmap indicating which of the timeslots configured for E-DCH are allocated for non-scheduled transmissions.
### 9.2.3.54a Timeslot Resource Related Information LCR

Only for 1.28Mcps TDD. The *Timeslot Resource Related Information LCR* IE is a bitmap indicating which of the timeslots configured for E-DCH are allocated for non-scheduled transmissions.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeslot Resource Related Information LCR</td>
<td></td>
<td></td>
<td>BIT STRING (13)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.55 Power Resource Related Information

The *Power Resource Related Information* specifies the maximum allowed E-PUCCH power resource (dB relative to $P_{c_{\text{base}}}$) that the UE may use for non-scheduled transmissions.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Resource Related Information</td>
<td></td>
<td></td>
<td>INTEGER (1..32)</td>
<td>The Value indicates 0-31 PRRI index for mapping of Absolute Grant Value in [34].</td>
</tr>
</tbody>
</table>

### 9.2.3.56 E-PUCCH Offset

The *E-PUCCH Offset* represents the CFN offset at which a non-scheduled E-DCH grant begins.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-PUCCH Offset</td>
<td></td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.57 E-DCH TDD Maximum Bitrate

The *E-DCH TDD Maximum Bitrate* parameter indicates the Maximum Bitrate for an E-DCH in TDD mode.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH TDD Maximum Bitrate</td>
<td></td>
<td></td>
<td>INTEGER (0..9201,...)</td>
<td>Bitrate on transport block level. Unit is kbits per second.</td>
</tr>
</tbody>
</table>

### 9.2.3.58 LTGI Presence

The *LTGI Presence* indicates to the Node B whether it shall use the Long Term Grant Indicator within E-DCH grants issued in a cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTGI Indicator</td>
<td></td>
<td></td>
<td>BOOLEAN</td>
<td>True = LTGI shall be included</td>
</tr>
</tbody>
</table>

### 9.2.3.59 E-HICH Time Offset

The *E-HICH Time Offset* (aka $t_{E_{\text{HICH}}}$ [19]) is determined by the Node B.
9.2.3.59a E-HICH Time Offset LCR

Only for 1.28 Mcps TDD. The E-HICH Time Offset LCR IE (aka \( n_{E-HICH} \) [19]) is determined by the Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-HICH Time Offset</td>
<td></td>
<td></td>
<td>INTEGER (4..44)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-HICH Time Offset LCR</td>
<td></td>
<td></td>
<td>INTEGER (4..15)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.60 E-DCH TDD Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the number of E-AGCH.

This capacity consumption law indicates the consumption law to be used with the following procedures:
- Physical Shared Channel Reconfiguration.

When one or more radio links have been configured to use E-DCH (via Radio Link Setup, Radio Link Addition or radio link reconfiguration procedures) the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall be credited to the Capacity Credit for the Radio Link Deletion procedure that removes the last radio link configured for E-DCH.

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the DL cost shall be applied to the DL or Global Capacity Credit and the UL Cost shall be applied to the UL Capacity Credit. If it is modelled as shared resources, both the DL costs and the UL costs shall be applied to the DL or Global Capacity Credit.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Cost</td>
<td>M</td>
<td></td>
<td>INTEGER (0..65535)</td>
<td>Cost per timeslot of the E-DCH. If not present, zero cost shall be applied.</td>
</tr>
<tr>
<td>DL Cost</td>
<td>O</td>
<td></td>
<td>INTEGER (0..65535)</td>
<td>Cost per E-AGCH or E-HICH configured. If not present, zero cost shall be applied.</td>
</tr>
</tbody>
</table>

9.2.3.61 E-DCH HARQ Power Offset TDD

The E-DCH HARQ Power Offset TDD is the power offset measured in dB.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH HARQ Power Offset TDD</td>
<td></td>
<td></td>
<td>INTEGER (0..6)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.61a E-DCH MAC-d Flow Retransmission Timer

Only for 1.28 Mcps TDD. The E-DCH MAC-d Flow Retransmission Timer IE is used in the E-DCH retransmission control as defined in [32].
### 9.2.3.62 SNPL Reporting Type

The **SNPL Reporting Type** indicates to the Node B whether the UEs in a cell shall use the type 1 or type 2 Serving and Neighbour Cell Pathloss metric [21].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNPL Reporting Type</td>
<td></td>
<td></td>
<td>ENUMERATED (type1, type2)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.63 Maximum Generated Received Total Wide Band Power in Other Cells

The **Maximum Generated Received Total Wide Band Power in Other Cells** indicates the maximum aggregate UL interference that may be generated from scheduled transmissions into other (non-serving) cells.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Generated Received Total Wide Band Power in Other Cells</td>
<td></td>
<td></td>
<td>INTEGER (0..621)</td>
<td>The Value mapping is according to mapping for measurement type &quot;Received Total Wide Band Power&quot; in [23].</td>
</tr>
</tbody>
</table>

### 9.2.3.64 E-DCH Non-scheduled Grant Information 7.68Mcps TDD

The **E-DCH Non-scheduled Grant Information 7.68Mcps TDD** IE is used to specify the details of a non-scheduled grant for 7.68Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeslot Resource Related Information</td>
<td>M</td>
<td></td>
<td>9.2.3.54</td>
<td></td>
</tr>
<tr>
<td>Power Resource Related Information</td>
<td>M</td>
<td></td>
<td>9.2.3.55</td>
<td></td>
</tr>
<tr>
<td>Repetition Period</td>
<td>M</td>
<td></td>
<td>9.2.3.16</td>
<td></td>
</tr>
<tr>
<td>Repetition Length</td>
<td>M</td>
<td></td>
<td>9.2.3.15</td>
<td></td>
</tr>
<tr>
<td>TDD E-PUCH Offset</td>
<td>M</td>
<td></td>
<td>9.2.3.56</td>
<td></td>
</tr>
<tr>
<td>TDD Channelisation Code 7.68Mcps</td>
<td>M</td>
<td></td>
<td>9.2.3.34</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.65 E-DCH TDD Information 7.68Mcps

The **E-DCH TDD Information 7.68Mcps** specifies the details of the maximum bit rate and processing overload level for 7.68Mcps TDD.
### 9.2.3.66 E-DCH TDD Maximum Bitrate 7.68Mcps

The E-DCH TDD Maximum Bitrate 7.68Mcps parameter indicates the Maximum Bitrate for an E-DCH in 7.68Mcps TDD mode.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH TDD Maximum Bitrate 7.68Mcps</td>
<td>O</td>
<td></td>
<td>9.2.3.66</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.3.67 E-DCH Physical Layer Category LCR

Only for 1.28Mcps TDD. The E-DCH Physical Layer Category LCR IE parameter indicates the E-DCH physical layer capability of UE in LCR TDD mode.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Physical Layer Category LCR</td>
<td></td>
<td>INTEGER(1..5)</td>
<td></td>
<td>As defined in [33]</td>
</tr>
</tbody>
</table>

#### 9.2.3.67A Extended E-DCH Physical Layer Category LCR

Only for 1.28Mcps TDD. The Extended E-DCH Physical Layer Category LCR IE parameter indicates the E-DCH physical layer capability of UE in LCR TDD mode.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended E-DCH Physical Layer Category LCR</td>
<td></td>
<td>INTEGER(6,...)</td>
<td></td>
<td>As defined in [33]</td>
</tr>
</tbody>
</table>

#### 9.2.3.68 E-HICH Type

The E-HICH Type IE identifies whether a E-HICH is scheduled or non-scheduled inside a cell for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-HICH Type</td>
<td></td>
<td></td>
<td>ENUMERATED (Scheduled, Non-scheduled)</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2.3.69 Maximum Target Received Total Wide Band Power LCR

The Maximum Target Received Total Wide Band Power LCR indicates the maximum target UL interference for a certain cell or frequency under CRNC, including received wide band power from all sources.
### 9.2.3.70 MBSFN Only Mode Indicator

The MBSFN only mode indicator indicates from CRNC to the Node B whether the cell is setup for MBSFN only mode for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBSFN Only Mode Indicator</td>
<td></td>
<td></td>
<td>ENUMERATED (MBSFN Only Mode)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.71 MBSFN Only Mode Capability

This parameter defines the MBSFN only mode capability for a local cell for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBSFN Only Mode Capability</td>
<td></td>
<td></td>
<td>ENUMERATED (MBSFN Only Mode capable, MBSFN Only Mode non capable)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.72 HS-DSCH Common System Information LCR

The *HS-DSCH Common System Information LCR* IE provides information for HS-DSCH configured for UE in Cell_FACH, Cell_PCH and URA_PCH and Information related to BCCH modification.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HS-DSCH Common Information LCR</strong></td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;CCCH Priority Queue ID</td>
<td>M</td>
<td></td>
<td>Priority Queue ID 9.2.1.49C</td>
<td>Applicable for all carriers when using multiple frequencies.</td>
</tr>
<tr>
<td>&gt;SRB#1 Priority Queue ID</td>
<td>M</td>
<td></td>
<td>Priority Queue ID 9.2.1.49C</td>
<td>Applicable for all carriers when using multiple frequencies.</td>
</tr>
<tr>
<td>&gt;Associated Common MAC Flow LCR</td>
<td>M</td>
<td></td>
<td>Common MAC Flow ID LCR 9.2.3.76</td>
<td>The Common MAC Flow ID LCR shall be one of the flow IDs defined in the Common MAC Flow Specific Information of this IE or shall only refer to a Common MAC flow already existing in the old configuration.</td>
</tr>
<tr>
<td>&gt;FACH Measurement Occasion Cycle Length Coefficient</td>
<td>O</td>
<td></td>
<td>9.2.1.111</td>
<td></td>
</tr>
<tr>
<td>&gt;BCCH Specific HS-DSCH RNTI Information LCR</td>
<td>O</td>
<td></td>
<td>9.2.3.89</td>
<td></td>
</tr>
<tr>
<td><strong>Common MAC Flow Specific Information LCR</strong></td>
<td>0..&lt;maxno ofCommon MACFlows LCR&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common MAC Flow ID LCR</td>
<td>M</td>
<td></td>
<td>9.2.3.76</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td></td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td></td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td></td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;Common MAC Flow Priority Queue Information LCR</td>
<td>0..&lt;maxno ofCommon MACQueues&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Priority Queue Information for Enhanced FACH</td>
<td>M</td>
<td></td>
<td>Priority Queue Information for Enhanced FACH/PCH 9.2.1.117</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Bearer Request Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.62A</td>
<td>Shouldn’t be contained if the MAC flow is setup in procedure. Should be contained if the MAC flow is modified in procedure.</td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>O</td>
<td></td>
<td>9.2.1.65</td>
<td>Corresponds to Ni [15] Applicable for 1.28Mcps TDD when using multiple frequencies.</td>
</tr>
<tr>
<td><strong>Common H-RNTI Information</strong></td>
<td>0..&lt;maxCommonHRNTI&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common H-RNTI</td>
<td>M</td>
<td></td>
<td>HS-DSCH-RNTI 9.2.1.31J</td>
<td></td>
</tr>
<tr>
<td><strong>Sync Information</strong></td>
<td>0..1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;T-sync</td>
<td>M</td>
<td></td>
<td>ENUMERATED (40, 80, 120, 160, 200, 300, 400, 500, ...)</td>
<td>Units of MS.</td>
</tr>
<tr>
<td>&gt;T-protect</td>
<td>M</td>
<td></td>
<td>ENUMERATED (40, 60, 80, 100, 120, 200, 400, ...)</td>
<td>Units of MS.</td>
</tr>
<tr>
<td>&gt;N-protect</td>
<td>M</td>
<td></td>
<td>INTEGER (0..7)</td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.3.18F TDD ACK NACK Power Offset

| O | 9.2.3.18F  
|   | 9.2.1.67A |

### 9.2.1.67A HS-SICH SIR Target

| O | UL SIR  
|   | 9.2.1.67A |

### 9.2.3.21a HS-SICH TPC step size

| O | 9.2.3.21a |

<table>
<thead>
<tr>
<th><strong>Range bound</strong></th>
<th><strong>Explanation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>maxnoofCommonMACFlowsLCR</code></td>
<td>Maximum number of Common MAC Flows for 1.28Mcps TDD</td>
</tr>
<tr>
<td><code>maxnoofCommonMACQueuesLCR</code></td>
<td>Maximum number of Priority Queues for Common MAC Flow for 1.28Mcps TDD</td>
</tr>
<tr>
<td><code>maxCommonHRNTI</code></td>
<td>Maximum number of Common H-RNTI</td>
</tr>
</tbody>
</table>

### 9.2.3.73 HS-DSCH Paging System Information LCR

The *HS-DSCH Paging System Information LCR* IE provides information for HS-DSCH configured for UE in Cell_PCH and URA_PCH.
### IE/Group Name

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paging MAC Flow Specific Information LCR</td>
<td>0..&lt;maxno ofPAGINGMACFlow&gt;</td>
<td>9.2.1.113</td>
<td></td>
</tr>
<tr>
<td>&gt;Paging MAC Flow ID</td>
<td>M</td>
<td>9.2.1.113</td>
<td></td>
</tr>
<tr>
<td>&gt;HSDPA Associated PICH Information LCR</td>
<td>O</td>
<td>9.2.3.77</td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>&gt;ToAWS</td>
<td>O</td>
<td>9.2.1.61</td>
<td></td>
</tr>
<tr>
<td>&gt;ToAWE</td>
<td>O</td>
<td>9.2.1.60</td>
<td></td>
</tr>
</tbody>
</table>

### Paging MAC Flow Priority Queue Information LCR

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;Priority Queue Information for Enhanced PCH</td>
<td>M</td>
<td>Priority Queue Information for Enhanced FACH/PCH 9.2.1.117</td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Bearer Request Indicator</td>
<td>O</td>
<td>9.2.1.62A</td>
<td>Shouldn’t be contained if the MAC flow is setup in procedure. Should be contained if the MAC flow is modified in procedure</td>
</tr>
</tbody>
</table>

### HS-SCCH Power

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HS-PDSCH Power

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>DL Power 9.2.1.21</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### DTCH/DCCH Reception window size

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>INTEGER (1..16)</td>
<td>Number of subframes for UE to detect the HS-SCCH</td>
<td></td>
</tr>
</tbody>
</table>

### N_PCH

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>INTEGER (1..8)</td>
<td>number of frames for a Paging sub-channel</td>
<td></td>
</tr>
</tbody>
</table>

### Transport Block Size List

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>INTEGER (1..32)</td>
<td>Index of the value range 1 to 32 of the MAC-ehs transport block size as specified in [32]</td>
<td></td>
</tr>
</tbody>
</table>

### Range bound

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofPAGINGMACFlow</td>
<td>Maximum number of Paging MAC Flows</td>
</tr>
<tr>
<td>maxnoofPAGINGMACQueues</td>
<td>Maximum number of Priority Queues for Paging MAC Flow</td>
</tr>
<tr>
<td>maxnoofHS-DSCHTBSsE-PCH</td>
<td>Maximum number of HS-DSCH Transport Block Sizes used for Enhanced PCH operation associated HS-SCCH less</td>
</tr>
</tbody>
</table>

### 9.2.3.74 HS-DSCH Common System Information Response LCR

The *HS-DSCH Common System Information Response LCR* IE provides information for HS-DSCH configured for UE not in Cell_DCH that have been established or modified.
### IE/Group Name

<table>
<thead>
<tr>
<th>HS-SCCH Specific Information Response LCR</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;HS SCCH ID LCR</td>
<td>M</td>
<td>0..&lt;maxNo OfHSSCC HsLCR&gt;</td>
<td>9.2.3.88</td>
<td>The HS-SCCH ID of the HS-SCCH used for the BCCH specific H-RNTI should be the minimum on each frequency.</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

| HARQ Memory Partitioning | O        | 9.2.1.102 |                        | -                      |            |                     |

<table>
<thead>
<tr>
<th>Common MAC Flow Specific Information Response LCR</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;Common MAC Flow ID LCR</td>
<td>M</td>
<td>0..&lt;maxNo ofCommon MACFlows LCR&gt;</td>
<td>9.2.3.76</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-DSCH Initial Capacity Allocation</td>
<td>O</td>
<td>9.2.1.31Ha</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| UARFCN                                           | O        | 9.2.1.65 |                        | YES reject             |            |                     |

<table>
<thead>
<tr>
<th>HARQ Memory Partitioning Per UARFCN</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;HARQ Memory Partitioning</td>
<td>M</td>
<td>9.2.1.102</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>M</td>
<td>9.2.1.65</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Range Bound

- maxNoofCommonMACFlowsLCR: Maximum number of Common MAC Flows for 1.28Mcps TDD
- maxNoOfHSSCCCHsLCR: Maximum number of HS-SCCH codes for 1.28Mcps TDD
- maxFrequencyinCell-1: Maximum number of frequencies that can be used in the cell minus 1

### 9.2.3.75 HS-DSCH Paging System Information Response LCR

The **HS-DSCH Paging System Information Response LCR** IE provides information for HS-DSCH configured for UE in Cell_PCH and URA_PCH that have been established or modified.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paging MAC Flow Specific Information Response LCR</td>
<td>0..&lt;maxNo ofPagingMACFlow&gt;</td>
<td>9.2.1.113</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Paging MAC Flow ID</td>
<td>M</td>
<td>9.2.1.113</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-PDSCH DL Timeslot and Code Information LCR</td>
<td>0..&lt;maxNo ofDLttsLCR&gt;</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 9.2.3.7A: Range bound and Explanation

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofPagingMACFlow</td>
<td>Maximum number of Paging MAC Flows</td>
</tr>
<tr>
<td>maxnoofDLtsLCR</td>
<td>Maximum number of Downlink time slots in a cell for 1.28Mcps TDD</td>
</tr>
<tr>
<td>maxnoofHSPDSCHs</td>
<td>Maximum number of HS-PDSCHs in one time slot of a Cell for 1.28Mcps TDD</td>
</tr>
</tbody>
</table>

9.2.3.76 Common MAC Flow ID LCR

The *Common MAC Flow ID LCR* IE is the unique identifier for one Common MAC flow.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common MAC Flow ID LCR</td>
<td></td>
<td>INTEGER</td>
<td>(0..255)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.77 HSDPA Associated PICH Information LCR

The *HSDPA Associated PICH Information LCR* IE provides information for PICH used for Enhanced PCH operation.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE HSDPA PICH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Shared with PCH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Not shared with PCH LCR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Common Physical Channel ID</td>
<td>M</td>
<td>9.2.1.13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; TDD Channelisation Code LCR</td>
<td>M</td>
<td>9.2.3.19a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Time Slot LCR</td>
<td>M</td>
<td>9.2.3.24A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Midamble Shift LCR Offset</td>
<td>M</td>
<td>9.2.3.7A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; TDD Physical Channel offset</td>
<td>M</td>
<td>9.2.3.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Repetition Period</td>
<td>M</td>
<td>9.2.3.16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Repetition Length</td>
<td>M</td>
<td>9.2.3.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Paging Indicator Length</td>
<td>M</td>
<td>9.2.3.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; PICH Power</td>
<td>M</td>
<td>9.2.1.49A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Second TDD Code LCR Code LCR</td>
<td>M</td>
<td>TDD Channelisation Code LCR 9.2.3.19a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; TSTD Indicator</td>
<td>O</td>
<td>9.2.1.64</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.78 Common MAC Flows To Delete LCR

The *Common MAC Flows To Delete LCR* IE is used for the removal of Common MAC flows from a Node B.
### Common MAC Flows To Delete LCR

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common MAC Flows To</td>
<td></td>
<td>1..&lt;maxno ofCommon MACFlows</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delete LCR</td>
<td></td>
<td>LCR&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common MAC Flow ID LCR</td>
<td>M</td>
<td></td>
<td>9.2.3.76</td>
<td></td>
</tr>
</tbody>
</table>

### Range Bound

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno of Common MAC Flows LCR</td>
<td>Maximum number of Common MAC Flows for 1.28Mcps TDD</td>
</tr>
</tbody>
</table>

**9.2.3.79 Common E-DCH System Information LCR**

The *Common E-DCH System Information LCR* IE provides information for E-DCH configured for UE in Cell_FACH and Idle state.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Common MAC Flow Specific Information LCR</td>
<td></td>
<td></td>
<td>0..&lt;maxno ofCommon MACFlows LCR&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UL Common MAC Flow ID</td>
<td>M</td>
<td></td>
<td>Common MAC Flow ID LCR 9.2.3.76</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Bearer Request Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.62A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td></td>
<td>9.2.1.4</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td></td>
<td>9.2.1.63</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;TNL QoS</td>
<td>O</td>
<td></td>
<td>9.2.1.58A</td>
<td>Shall be ignored if bearer establishment with ALCAP.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Payload CRC Presence Indicator</td>
<td>O</td>
<td></td>
<td>9.2.1.49</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common E-DCH MAC-d Flow Specific Information LCR</td>
<td>O</td>
<td></td>
<td>9.2.3.81</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UARFCN</td>
<td>O</td>
<td></td>
<td>9.2.1.65</td>
<td>Corresponds to Nt [15] Applicable for 1.28Mcps TDD when using multiple frequencies.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common E-PUCCH Information LCR</td>
<td>O</td>
<td></td>
<td>9.2.3.83</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-TFCS Information TDD</td>
<td>O</td>
<td></td>
<td>9.2.3.46</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Number of Retransmission for Scheduling Info LCR</td>
<td>O</td>
<td></td>
<td>Maximum Number of Retransmissions for E-DCH 9.2.1.81</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-DCH Retransmission timer for Scheduling Info LCR</td>
<td>O</td>
<td></td>
<td>E-DCH MAC-d Flow Retransmission Timer 9.2.3.61a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UL Synchronisation Parameters LCR</td>
<td></td>
<td>0..1</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Uplink Synchronisation Step Size</td>
<td>M</td>
<td></td>
<td>9.2.3.26H</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Uplink Synchronisation Frequency</td>
<td>M</td>
<td></td>
<td>9.2.3.26G</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Channel ID for Common E-RNTI Requested Indicator</td>
<td>O</td>
<td></td>
<td>Enumerated(requested)</td>
<td>YES ignore</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Range bound**

| maxno of Common MAC Flows LCR | Maximum number of Common MAC Flows |

**Explanation**
9.2.3.80  Common E-DCH System Information Response LCR

The Common E-DCH System Information Response LCR IE provides information for E-DCH configured for UE in Cell_FACH and Idle state that have been established or modified.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Common MAC Flow Specific Information Response LCR</td>
<td>0..&lt;maxno ofEDCHM ACFlowsLCR&gt;</td>
<td></td>
<td></td>
<td>See Note 1 below</td>
</tr>
<tr>
<td>&gt;UL Common MAC Flow ID</td>
<td>M</td>
<td>Common MAC Flow ID LCR 9.2.1.76</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Binding ID</td>
<td>O</td>
<td>9.2.1.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Transport Layer Address</td>
<td>O</td>
<td>9.2.1.63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-AGCH Specific Information Response TDD</td>
<td>0..&lt;maxNo ofEAGCHs LCR&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-AGCH ID TDD</td>
<td>M</td>
<td>9.2.3.51</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-HICH Specific Information Response 1.28Mcps TDD</td>
<td>0..&lt;maxNo OIEHICHs LCR&gt;</td>
<td>1.28Mcps TDD only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-HICH ID TDD LCR</td>
<td>M</td>
<td>9.2.3.51a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCCH E-RNTI Information LCR</td>
<td>O</td>
<td>9.2.3.84</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note1: This information element is a simplified representation of the ASN.1. Repetitions 1 to maxnoofEDCHMACFlows and Repetition maxnoofEDCHMACFlows+1 to maxnoofEDCHMACFlowsLCR are represented by separate ASN.1 structures with different criticality.

<table>
<thead>
<tr>
<th>Range bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofCommonMACFlowsLCR</td>
<td>Maximum number of Common MAC Flows</td>
</tr>
<tr>
<td>maxNoOfEAGCHsLCR</td>
<td>Maximum number of E-AGCHs in a Cell</td>
</tr>
<tr>
<td>maxNoOfEIHICHsLCR</td>
<td>Maximum number of E-HICHs in a Cell</td>
</tr>
</tbody>
</table>

9.2.3.81  Common E-DCH MAC-d Flow Specific Information LCR

The Common E-DCH MAC-d Flow Specific Information LCR IE is used for the establishment or modify Common E-DCH MAC-d flows.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common E-DCH MAC-d Flow Specific Information LCR</td>
<td>1..&lt;maxno ofEDCHMACdFlows LCR&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common E-DCH MAC-d Flow ID</td>
<td>M</td>
<td>9.2.3.87</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Maximum Number Of Retransmissions For E-DCH</td>
<td>O</td>
<td>9.2.1.81</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E-DCH MAC-d Flow Multiplexing List</td>
<td>O</td>
<td>9.2.1.69</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Common E-DCH Logical Channel Information</td>
<td>O</td>
<td>1..&lt;maxno oflogicalchannels&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Logical Channel ID</td>
<td>M</td>
<td>9.2.1.80</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Maximum MAC-c PDU Size Extended</td>
<td>O</td>
<td>MAC PDU Size Extended 9.2.1.38C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9.2.3.82 Enhanced UE DRX Information LCR

The Enhanced UE DRX Information LCR IE provides information for configuring the UE in Cell_FACH state to discontinuously reception for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T321</td>
<td>M</td>
<td>ENUMERATED (100, 200, 400, 800,…)</td>
<td>Determines the time the UE waits until initiating DRX operation, in ms.</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH DRX cycle\textsubscript{FACH}</td>
<td>M</td>
<td>ENUMERATED (4, 8, 16, 32,…)</td>
<td>Determines the length of the DRX Cycle during DRX operation, in frames</td>
<td></td>
</tr>
<tr>
<td>HS-DSCH Rx burst\textsubscript{FACH}</td>
<td>M</td>
<td>ENUMERATED (1, 2, 4, 8, 16,…)</td>
<td>Determines the period within the DRX Cycle that the UE continuously receives HS-DSCH, in frames</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.83 Common E-PUCH Information LCR

The Common E-PUCH Information LCR IE provides parameters to configure the E-PUCH physical channel for 1.28Mcps TDD.
### 9.2.3.84 Common E-RNTI Information LCR

The **Common E-RNTI Information LCR** IE provides parameters to configure the common E-RNTI used in enhanced CELL_FACH and Idle mode.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common E-RNTI Information LCR</td>
<td>M</td>
<td></td>
<td>INTEGER</td>
<td></td>
</tr>
<tr>
<td>&gt;Starting E-RNTI</td>
<td>M</td>
<td>9.2.1.75</td>
<td>INTEGER (1..32)</td>
<td></td>
</tr>
<tr>
<td>&gt;Number of group per group</td>
<td>M</td>
<td>INTEGER (1..7)</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Associated Physical Channel ID</td>
<td>O</td>
<td>Common Physical Channel ID</td>
<td>9.2.1.13</td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**

| maxno of ERUCCHsLCR | Maximum number of E-RUCCH that can be defined in a Cell |

---

### Table 1

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum code rate</td>
<td>M</td>
<td>INTEGER (0..63)</td>
<td>Unit: - Range: 0.055 ..1 Step: 0.015</td>
<td></td>
</tr>
<tr>
<td>Maximum code rate</td>
<td>M</td>
<td>INTEGER (0..63)</td>
<td>Unit: - Range: 0.055 ..1 Step: 0.015</td>
<td></td>
</tr>
<tr>
<td>HARQ Info for E-DCH</td>
<td>M</td>
<td>ENUMERATED (rv0, rvtable)</td>
<td>'rv0' indicates that the UE will only use E_DCH RV index 0. 'rvtable' indicates that the UE will use an RSN based RV index as specified in [8]</td>
<td></td>
</tr>
<tr>
<td>PRXdes_base per UARFCN</td>
<td>O</td>
<td>0..&lt;maxFrequencyinCell</td>
<td>dBm. Reference Desired RX power level for E-PUCCH. Reference to Pe-base in [21]</td>
<td></td>
</tr>
<tr>
<td>E-PUCH TPC Step Size</td>
<td>O</td>
<td>TDD TPC UL Step Size 9.2.3.21a</td>
<td>Unit: Number of subframes. Reference to E-PUCCH Power Control for 1.28Mcps TDD in [21]. If it is not present, UE shall deem it to be infinite in which case closed loop power control shall always be used.</td>
<td></td>
</tr>
<tr>
<td>E-AGCH TPC Step Size</td>
<td>O</td>
<td>TDD TPC DL Step Size 9.2.3.21</td>
<td>Unit: Number of subframes. Reference to E-PUCCH Power Control for 1.28Mcps TDD in [21]. If it is not present, UE shall deem it to be infinite in which case closed loop power control shall always be used.</td>
<td></td>
</tr>
<tr>
<td>E-PUCH Power Control GAP</td>
<td>O</td>
<td>INTEGER (1..255)</td>
<td>Unit: Number of subframes. Reference to E-PUCCH Power Control for 1.28Mcps TDD in [21]. If it is not present, UE shall deem it to be infinite in which case closed loop power control shall always be used.</td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**

| maxFrequencyinCell | Maximum number of Frequencies that can be defined in a Cell |

---

### Table 2

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common E-RNTI Information LCR</td>
<td>M</td>
<td>1..&lt;maxno of ERUCCHsLCR</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&gt;Starting E-RNTI</td>
<td>M</td>
<td>9.2.1.75</td>
<td>INTEGER (1..32)</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Number of group per group</td>
<td>M</td>
<td>INTEGER (1..7)</td>
<td>YES</td>
<td>reject</td>
</tr>
<tr>
<td>&gt;Associated Physical Channel ID</td>
<td>O</td>
<td>Common Physical Channel ID</td>
<td>9.2.1.13</td>
<td></td>
</tr>
</tbody>
</table>

**Range Bound**

| maxno of ERUCCHsLCR | Maximum number of E-RUCCH that can be defined in a Cell |

---

**ETSI**
9.2.3.85 Paging MAC Flows To Delete LCR

The *Paging MAC Flows To Delete LCR* IE is used for the removal of Paging MAC flows from a Node B.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paging MAC Flows To Delete LCR</td>
<td></td>
<td>1..&lt;maxno of Paging MAC Flow&gt;</td>
<td>9.2.1.113</td>
<td></td>
</tr>
<tr>
<td>&gt;Paging MAC Flow ID</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno of Paging MAC Flow</td>
<td>Maximum number of Paging MAC Flows</td>
</tr>
</tbody>
</table>

9.2.3.86 Common E-DCH MAC-d Flows To Delete LCR

The *Common E-DCH MAC-d Flows To Delete LCR* IE is used for the removal of E-DCH MAC-d flows.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common E-DCH MAC-d Flows To Delete</td>
<td></td>
<td>1..&lt;maxno of Common E-DCH MAC-d Flows LCR&gt;</td>
<td>9.2.3.87</td>
<td></td>
</tr>
<tr>
<td>&gt;Common E-DCH MAC-d Flow ID LCR</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno of Common E-DCH MAC-d Flows LCR</td>
<td>Maximum number of common E-DCH MAC-d flows</td>
</tr>
</tbody>
</table>

9.2.3.87 Common E-DCH MAC-d Flow ID LCR

The *Common E-DCH MAC-d Flow ID LCR* IE is the unique identifier for one MAC-d flow on E-DCH.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common E-DCH MAC-d Flow ID LCR</td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.88 HS-SCCH ID LCR

The HS-SCCH ID identifies unambiguously a HS-SCCH and its paired HS-SICH within the set of HS-SCCHs for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS SCCH ID LCR</td>
<td></td>
<td>INTEGER (0..255)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.89 BCCH Specific HS-DSCH RNTI Information LCR

The *BCCH Specific HS-DSCH RNTI Information* IE provides information for BCCH Transmission using HS-DSCH for 1.28Mcps TDD.
### 9.2.3.90 MAC-es Maximum Bit Rate LCR

The **MAC-es Maximum Bit Rate LCR** IE indicates the maximum number of bits per second to be delivered over the air interface.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-es Maximum Bit Rate LCR</td>
<td></td>
<td></td>
<td>INTEGER</td>
<td>Unit: bit/s</td>
</tr>
</tbody>
</table>

### 9.2.3.91 Semi-Persistent scheduling Capability LCR

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semi-Persistent scheduling Capability LCR</td>
<td></td>
<td></td>
<td>ENUMERATED (Semi-Persistent scheduling Capable, Semi-Persistent scheduling Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.92 Continuous Packet Connectivity DRX Capability LCR

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous Packet Connectivity DRX Capability LCR</td>
<td></td>
<td></td>
<td>ENUMERATED (Continuous Packet Connectivity DRX Capable, Continuous Packet Connectivity DRX Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.93 Continuous Packet Connectivity DRX Information LCR

The **Continuous Packet Connectivity DRX Information LCR** IE defines the parameters used for Continuous Packet Connectivity DRX operation for 1.28 Mcps TDD (see ref. [21]).
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enabling Delay</td>
<td>M</td>
<td></td>
<td>ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)</td>
<td>Units of radio frames</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>HS-SCCH DRX Information</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&gt;UE DRX Cycle</td>
<td>M</td>
<td>ENUMERATED(1,2,4,8,16,32,64,...)</td>
<td>Units of subframes</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Inactivity Threshold for UE DRX Cycle</td>
<td>O</td>
<td>ENUMERATED(1,2,4,8,16,32,64,...)</td>
<td>Units of subframes</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;UE DRX Offset</td>
<td>M</td>
<td>INTEGER (0..63)</td>
<td>Units of subframes. Offset of the UE DRX cycles at the given TTI</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Inactivity Threshold for UE DRX Cycle Ext</td>
<td>O</td>
<td>ENUMERATED(128,256,512,...)</td>
<td>Units of subframes. YES ignore</td>
<td>ignore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-AGCH DRX Information</td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>CHOICE E-AGCH DRX information type</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&gt;Same as HS-SCCH</td>
<td>NULL</td>
<td></td>
<td></td>
<td>Indicate the E-AGCH DRX Cycle and Offset are the same as the HS-SCCH DRX Cycle and Offset, and the E-AGCH Inactivity Monitor Threshold is absent</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&gt;E-AGCH DRX parameters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;E-AGCH DRX cycle</td>
<td>M</td>
<td>Enumerated (1,2,4,8,16,32,64)</td>
<td>Units of subframes.</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;E-AGCH Inactivity Monitor Threshold</td>
<td>O</td>
<td>Enumerated (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, infinity,...)</td>
<td>Units of subframes.</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;E-AGCH DRX Offset</td>
<td>M</td>
<td>Integer (0..63)</td>
<td>Units of subframes. Offset of the E-AGCH DRX cycles.</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enabling Delay Ext</td>
<td>O</td>
<td>ENUMERATED (infinity,...)</td>
<td></td>
<td>Yes</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.94 Continuous Packet Connectivity DRX Information To Modify LCR

The Continuous Packet Connectivity DRX Information To Modify LCR IE is used for modification of Continuous Packet Connectivity DRX information in a Node B Communication Context. The Continuous Packet Connectivity DRX Information To Modify LCR IE shall include at least one of the following IE.
### Enabling Delay

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)</td>
<td>Units of radio frames</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

### CHOICE DRX Information To Modify

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**>>HS-SCCH DRX-Information**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>0..1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**>>UE DRX Cycle**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>ENUMERATED (1,2,4,8,16,32,64,....)</td>
<td>Units of subframes</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**>>Inactivity Threshold for UE DRX Cycle**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>ENUMERATED (1,2,4,8,16,32,64,....)</td>
<td>Units of subframes</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**>>UE DRX Offset**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>INTEGER (0..63)</td>
<td>Units of subframes. Offset of the UE DRX cycles at the given TTI.</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**>>Inactivity Threshold for UE DRX Cycle Ext**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>ENUMERATED (128,256,512,....)</td>
<td>Units of subframes</td>
<td>YES</td>
<td>ignore</td>
<td></td>
</tr>
</tbody>
</table>

**>>E-AGCH DRX Information**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>0..1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**>>CHOICE E-AGCH DRX Information type**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**>>>Same as HS-SCCH**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>NULL</td>
<td>-</td>
<td>-</td>
<td>Indicate the E-AGCH DRX Cycle and Offset are the same as the HS-SCCH DRX Cycle and Offset, and the E-AGCH Inactivity Monitor Threshold is absent.</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**>>>E-AGCH DRX parameters**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**>>>E-AGCH DRX cycle**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>ENUMERATED (1,2,4,8,16,32,64....)</td>
<td>Units of subframes</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**>>>E-AGCH Inactivity Monitor Threshold**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>ENUMERATED (0,1,2,4,8,16,32, 64,128,256,512,inf,....)</td>
<td>Units of subframes</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**>>>E-AGCH DRX Offset**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>INTEGER (0..63)</td>
<td>Units of subframes. Offset of the E-AGCH DRX cycles.</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**Deactivate**

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>NULL</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Enabling Delay Ext

<table>
<thead>
<tr>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>ENUMERATED (inf,....)</td>
<td>YES</td>
<td>ignore</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.95 Continuous Packet Connectivity DRX Information Response LCR

Node B uses the *Continuous Packet Connectivity DRX Information Response LCR IE* to inform the CRNC the parameters used for Continuous Packet Connectivity DRX operation for 1.28 Mcps TDD (see ref. [21]). Continuous Packet Connectivity DRX related parameters shall be configured by the CRNC. For the parameters which can be accepted by Node B, the Node B shall not included the related IEs in the *Continuous Packet Connectivity DRX Information Response LCR IE*. For the parameters which can be not accepted by Node B, the Node B shall included the related IEs in the *Continuous Packet Connectivity DRX Information Response LCR IE*. 

---

**ETS**
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enabling Delay</td>
<td>O</td>
<td></td>
<td>ENUMERATED (0, 1, 2, 4, 8, 16, 32, 64, 128)</td>
<td>Units of radio frames</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>HS-SCCH DRX Information</td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;UE DRX Cycle</td>
<td>O</td>
<td></td>
<td>ENUMERATED(1,2,4,8,16,32,64, ...)</td>
<td>Units of subframes</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Inactivity Threshold for UE DRX Cycle</td>
<td>O</td>
<td></td>
<td>ENUMERATED(1,2,4,8,16,32,64, ...)</td>
<td>Units of subframes</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;UE DRX Offset</td>
<td>O</td>
<td></td>
<td>INTEGER (0..63)</td>
<td>Units of subframes. Offset of the UE DRX cycles at the given TTI</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Inactivity Threshold for UE DRX Cycle Ext</td>
<td>O</td>
<td></td>
<td>ENUMERATED(128,256,512, ...)</td>
<td>Units of subframes</td>
<td>YES</td>
<td>ignore</td>
</tr>
<tr>
<td>E-AGCH DRX Information</td>
<td></td>
<td>0..1</td>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>E-AGCH DRX Information</td>
<td>CHOICE</td>
<td>M</td>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;Same as HS-SCCH</td>
<td></td>
<td></td>
<td>NULL</td>
<td>Indicate the E-AGCH DRX Cycle and Offset are the same as the HS-SCCH DRX Cycle and Offset, and the E-AGCH Inactivity Monitor Threshold is absent</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;E-AGCH DRX parameters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;E-AGCH DRX cycle</td>
<td>O</td>
<td></td>
<td>Enumerated (1,2,4,8,16,32,64, ...)</td>
<td>Units of subframes.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;E-AGCH Inactivity Monitor Threshold</td>
<td>O</td>
<td></td>
<td>Enumerated (0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, infinity, ...)</td>
<td>Units of subframes.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt;&gt;E-AGCH DRX Offset</td>
<td>O</td>
<td></td>
<td>Integer (0..63)</td>
<td>Units of subframes. Offset of the E-AGCH DRX cycles.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Enabling Delay Ext</td>
<td>O</td>
<td></td>
<td>Enumerated (infinity,...)</td>
<td>This IE can only be used when the Enabling Delay Ext is included in the request message, otherwise, the IE shall not be used.</td>
<td>Yes</td>
<td>ignore</td>
</tr>
</tbody>
</table>

9.2.3.96 HS-DSCH Semi-Persistent scheduling Information LCR

The HS-DSCH Semi-Persistent scheduling Information LCR IE defines the parameters used for HS-DSCH semi-Persistent scheduling for 1.28 Mcps TDD (see ref. [21]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Block Size List</td>
<td></td>
<td>1..&lt;maxnoofTBSsMappi ng</td>
<td>INTEGER (0..maxnoofTBSsMappi ng-1)</td>
<td>Corresponds to the Transport-block size information field carried on HS-SCCH (see ref</td>
</tr>
<tr>
<td>Range Bound</td>
<td>Explanation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>--------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofHS-DSCHTBSsLCR</td>
<td>Maximum number of HS-DSCH Transport Block Sizes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofRepetitionPeriodLCR</td>
<td>Maximum number of Repetition Period for 1.28Mcps TDD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofTBSsMapping</td>
<td>Maximum number of Transport Block Size mapping index on HS-SCCH.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.96a HS-DSCH Semi-Persistent scheduling Information to modify LCR

The **HS-PSCH Semi-Persistent scheduling Information to modify LCR** IE is used for the modification of HS-DSCH Semi-Persistent scheduling information for 1.28 Mcps TDD (see ref. [21]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Block Size List</td>
<td></td>
<td>0..&lt;maxnoofTBSsMapping &gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Transport Block Size mapping Index</td>
<td>M</td>
<td>INTEGER (0..maxnoofTBSsMapping-1)</td>
<td></td>
<td>Corresponds to the Transport-block size information field carried on HS-SCCH (see ref [34]).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Transport Block Size Index</td>
<td>M</td>
<td>INTEGER (1..maxnoofHS-DSCHTBSsLCR)</td>
<td></td>
<td>Corresponds to the TB index in the related Transport Block</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range Bound</td>
<td>Explanation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofHS-DSCHTBSSsLCR</td>
<td>Maximum number of HS-DSCH Transport Block Sizes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofRepetitionPeriodLCR</td>
<td>Maximum number of Repetition Period for 1.28 Mcps TDD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>maxnoofTBSsMapping</td>
<td>Maximum number of Transport Block Size mapping index on HS-SCCH.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.97 E-DCH Semi-Persistent scheduling Information LCR

The E-DCH Semi-Persistent scheduling Information LCR IE defines the parameters used for E-DCH semi-Persistent scheduling for 1.28 Mcps TDD (see ref. [21]).
<table>
<thead>
<tr>
<th>Semi-Persistent E-DCH related E-HICH Information</th>
<th>/</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repetition Period Index</td>
<td>M</td>
</tr>
<tr>
<td>Repetition Period</td>
<td>M</td>
</tr>
<tr>
<td>Repetition Length</td>
<td>O</td>
</tr>
<tr>
<td>E-DCH Semi-Persistent scheduling Indicator</td>
<td>M</td>
</tr>
<tr>
<td>Semi-Persistent E-DCH related E-HICH Information</td>
<td>/</td>
</tr>
<tr>
<td>E-HICH ID TDD</td>
<td>M</td>
</tr>
<tr>
<td>Signature Sequence Group Index</td>
<td>M</td>
</tr>
<tr>
<td>Extended E-HICH ID TDD</td>
<td>O</td>
</tr>
<tr>
<td>E-DCH Semi-Persistent Resource Reservation Indicator</td>
<td>O</td>
</tr>
</tbody>
</table>

### Range Bound

| maxnoofRepetitionPeriodLCR | Maximum number of Repetition Period for 1.28Mcps TDD |

#### 9.2.3.97a E-DCH Semi-Persistent scheduling Information to modify LCR

The *E-DCH Semi-Persistent scheduling Information to modify LCR* IE is used for the modification of E-DCH Semi-Persistent scheduling information for 1.28 Mcps TDD (see ref. [21]).

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repetition Period list</td>
<td>0..&lt;maxnoofRepetitionPeriodLCR</td>
<td></td>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
### 3GPP TS 25.433 Version 9.5.0 Release 9

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-SICH information for HS-DSCH Semi-Persistent Scheduling operation</td>
<td>1..&lt;maxnoofofHSSICHforSPS&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;HS-SICH mapping index</td>
<td>M</td>
<td></td>
<td>INTEGER (0..&lt;maxnoofofHSSICHforSPS-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;CHOICE HS-SICH type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;HS-SCCH associated HS-SICH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.98 HS-DSCH Semi-Persistent scheduling Information Response LCR

The HS-DSCH Semi-Persistent scheduling Information Response LCR IE provides information for HS-DSCH Semi-Persistent scheduling determined within the Node B (see ref. [21]).
<table>
<thead>
<tr>
<th><strong>&gt;&gt; HS-SICH ID</strong></th>
<th><strong>M</strong></th>
<th><strong>9.2.3.5Gb</strong></th>
<th>If the Extended HS-SICH ID IE is included in the HS-SICH Information LCR IE, the HS-SICH ID IE shall be ignored.</th>
<th><strong>-</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>&gt;&gt; Extended HS-SICH ID</strong></td>
<td><strong>O</strong></td>
<td><strong>9.2.3.5K</strong></td>
<td>The Extended HS-SICH ID IE shall be used if the HS-SICH identity has a value larger than 31.</td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt;&gt; Non-HS-SCCH associated HS-SICH</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt;&gt; Non-HS-SCCH associated HS-SICH ID</strong></td>
<td><strong>M</strong></td>
<td><strong>INTEGER (0..255)</strong></td>
<td></td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>Allocated HS-PDSCH Semi-persistent resource</strong></td>
<td><strong>0..1</strong></td>
<td></td>
<td></td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt; Repetition Period Index</strong></td>
<td><strong>M</strong></td>
<td><strong>INTEGER (0..maxnoofRepetitionPeriodLCR-1)</strong></td>
<td></td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt; Repetition Length for HS-PDSCH Semi-persistent Resource</strong></td>
<td><strong>O</strong></td>
<td><strong>INTEGER (1..63)</strong></td>
<td>The IE is not used.</td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt; HS-PDSCH offset</strong></td>
<td><strong>M</strong></td>
<td><strong>INTEGER (0..63)</strong></td>
<td>Units of subframes</td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt; Timeslot Resource Related Information</strong></td>
<td><strong>M</strong></td>
<td><strong>BIT STRING(5)</strong></td>
<td>Each bit indicates availability of a timeslot, where the bit 0 corresponds to TS2, the bit 1 is TS3, the bit 3 is TS4… bit 5 corresponds to TS6. The value 1 of a bit indicates that the corresponding timeslot is available. Bit 0 is the first/leftmost bit of the bit string.</td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt; Start Code</strong></td>
<td><strong>M</strong></td>
<td><strong>TDD Channelisation Code 9.2.3.19</strong></td>
<td></td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt; End Code</strong></td>
<td><strong>M</strong></td>
<td><strong>TDD Channelisation Code 9.2.3.19</strong></td>
<td></td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt; Transport Block Size Index</strong></td>
<td><strong>M</strong></td>
<td><strong>INTEGER (0..maxnoofTBSsMapp-ing-1)</strong></td>
<td></td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt; Modulation type</strong></td>
<td><strong>M</strong></td>
<td><strong>ENUMERATED (QPSK, 16QAM)</strong></td>
<td></td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt; HS-SICH mapping index</strong></td>
<td><strong>M</strong></td>
<td><strong>INTEGER (0..maxnoofHS-SICHforSPS-1)</strong></td>
<td></td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>&gt; HS-PDSCH Midamble Configuration</strong></td>
<td><strong>O</strong></td>
<td><strong>Midamble Shift LCR 9.2.3.7A</strong></td>
<td>YES reject</td>
<td><strong>-</strong></td>
</tr>
<tr>
<td></td>
<td>O</td>
<td>ENUMERATED (800..304000,...)</td>
<td>Indicates the buffer size that shall be reserved for HS-DSCH semi-persistent scheduling operation.</td>
<td>-</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------</td>
<td>-----------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>---</td>
</tr>
<tr>
<td>Buffer Size for HS-DSCH Semi-Persistent scheduling</td>
<td>O</td>
<td>INTEGER (1..16)</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Number of Processes for HS-DSCH Semi-Persistent scheduling</td>
<td>O</td>
<td>INTEGER (1..16)</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxnoofHS-SICHforSPS</td>
<td>Maximum number of HS-SICH for HS-DSCH Semi-Persistent scheduling operation</td>
</tr>
<tr>
<td>maxnoofTBSsMapping</td>
<td>Maximum number of Transport Block Size mapping index on HS-SCCH.</td>
</tr>
</tbody>
</table>

9.2.3.99  E-DCH Semi-Persistent scheduling Information Response LCR

The *E-DCH Semi-Persistent scheduling Information Response LCR* IE provides information for E-DCH Semi-Persistent scheduling information determined within the Node B (see ref. [21]).
### 9.2.3.100 HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR

The **HS-DSCH Semi-Persistent scheduling Deactivate Indicator LCR** IE is used to deactivate HS-DSCH Semi-Persistent scheduling operation for 1.28 Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-DSCH Semi-Persistent scheduling Deactivate Indicator</td>
<td>M</td>
<td>NULL</td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.101 E-DCH Semi-Persistent scheduling Deactivate Indicator LCR

The **E-DCH Semi-Persistent scheduling Deactivate Indicator LCR** IE is used to deactivate E-DCH Semi-Persistent scheduling operation for 1.28 Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-DCH Semi-Persistent scheduling Deactivate Indicator</td>
<td>M</td>
<td>NULL</td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>

### 9.2.3.102 Idle Interval Information

The **Idle Interval Information** IE indicates the idle interval used for E-UTRAN measurements by a multi-RAT UE in CELL_DCH state. Ref [50].
### 9.2.3.103 HS-SICH Reference Signal Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midamble Configuration LCR</td>
<td></td>
<td></td>
<td>ENUMERATE D (2, 4, 6, 8, 10, 12, 14, 16, ...)</td>
<td>As defined in [19]</td>
</tr>
<tr>
<td>Midamble Shift</td>
<td></td>
<td></td>
<td>INTEGER (0..15)</td>
<td></td>
</tr>
<tr>
<td>Time Slot LCR</td>
<td></td>
<td></td>
<td>9.2.3.24A</td>
<td></td>
</tr>
</tbody>
</table>
### 9.2.3.104 UE Selected MBMS Service Information

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHOICE Status</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;None</td>
<td>O</td>
<td>NULL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;Some</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;Selected MBMS Service List</td>
<td>M</td>
<td>0..7</td>
<td>1..MaxMB MSService Select</td>
<td>This IE indicates the Time Slot information of UE selected MBMS service in the other frequency. For 1.28Mcps TDD only. Mandatory if the IE UE Selected MBMS Service Action set to Selected. Otherwise optional.</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

| >>>>Time Slot LCR | M | 9.2.3.24A | – |
| >>>>MBMS Service TDM Information | M | 0..1 | Indicating the MBMS service TDM Information |
| >>>> Transmission Time Interval | M | ENUMERATED (10, 20, 40, 80,…) | Unit: ms |
| >>>>TDM_Rep | M | Integer (2..9) |
| >>>>TDM_Offset | M | Integer (0..8) |
| >>>>TDM_Length | M | Integer (1..8) |

### 9.2.3.105 Best Cell Portions LCR

*Best Cell Portions LCR* IE indicates the best received cell portions and their RSCP values when Cell Portions are defined in the cell for 1.28 Mcps TDD.
<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best Cell Portions LCR</td>
<td></td>
<td>1..&lt;maxno_ofBestCellPortionsLCR&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Cell Portion LCR ID</td>
<td>M</td>
<td></td>
<td>9.2.3.107</td>
<td></td>
</tr>
<tr>
<td>&gt; RSCP Value</td>
<td>M</td>
<td>INTEGER (0..127)</td>
<td>According to mapping in [23]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxno_ofBestCellPortionsLCR</td>
<td>Maximum number of reported Best Received Cell Portions for 1.28 Mcps TDD</td>
</tr>
</tbody>
</table>

9.2.3.106 Cell Portion Capability LCR

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Portion Capability LCR</td>
<td></td>
<td></td>
<td>ENUMERATED (Cell Portion Capable, Cell Portion Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.107 Cell Portion LCR ID
Cell Portion LCR ID is the unique identifier for a cell portion within a cell for 1.28 Mcps TDD. See [5].

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Portion LCR ID</td>
<td></td>
<td></td>
<td>INTEGER (0..255,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.108 Number Of Reported Cell Portions LCR
Number of Reported Cell Portions LCR indicates the number of Best Cell Portions values which shall be included in the measurement report.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number Of Reported Cell Portions LCR</td>
<td></td>
<td></td>
<td>INTEGER (1..256,...)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.109 TS0 Capability LCR
The parameter defines the TS0 capability for a Local Cell. The TS0 Capable indicates that the HS-PDSCH can be configured in TS0 in the Local Cell.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TS0 Capability LCR</td>
<td></td>
<td></td>
<td>ENUMERATED (TS0 Capable, TS0 Non-Capable)</td>
<td></td>
</tr>
</tbody>
</table>

9.2.3.110 UE TS0 Capability LCR
The UE TS0 Capability LCR IE defines the UE TS0 enhancement capability, see ref [33].
9.2.3.111 DCH Measurement Occasion Information

The DCH Measurement Occasion Information IE indicates Measurement Occasion Information used for inter-frequency/inter-RAT measurements in CELL_DCH state for 1.28Mcps TDD.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELL_DCH measurement occasion pattern sequence</td>
<td></td>
<td>1 to &lt;maxDCHMeasurementOccasionPatternSequence&gt;</td>
<td>ENUMERATED</td>
<td>This flag indicates whether the measurement occasion pattern sequence shall be activated or deactivated.</td>
</tr>
<tr>
<td>&gt;Pattern sequence identifier</td>
<td>M</td>
<td></td>
<td>Integer(1..maxDCHMeasurementOccasionPatternSequence)</td>
<td></td>
</tr>
<tr>
<td>&gt;Status Flag</td>
<td>M</td>
<td></td>
<td>Enumerated(activate, deactivate)</td>
<td></td>
</tr>
<tr>
<td>&gt;Measurement occasion pattern sequence parameters</td>
<td>O</td>
<td></td>
<td>CELL_DCH measurement occasion cycle length coefficient. The actual measurement occasion period equal to 2^k radio frames. Value 0 indicates continuous allocation.</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;k</td>
<td>M</td>
<td></td>
<td>Integer(1..9)</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Offset</td>
<td>M</td>
<td></td>
<td>Integer(0..511)</td>
<td>In frames. The measurement occasion position in the measurement period.</td>
</tr>
<tr>
<td>&gt;&gt;M_Length</td>
<td>M</td>
<td></td>
<td>Integer(1..512)</td>
<td>The measurement occasion length in frames starting from the Offset.</td>
</tr>
<tr>
<td>&gt;&gt;Timeslot Bitmap</td>
<td>M</td>
<td></td>
<td>Bit string (7)</td>
<td>Bitmap indicating which of the</td>
</tr>
<tr>
<td>IE/Group Name</td>
<td>Presence</td>
<td>Range</td>
<td>IE Type and Reference</td>
<td>Semantics Description</td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
<td>-------</td>
<td>-----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>timeslot(s) is/are allocated for measurement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bit 0 is for timeslot 0.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bit 1 is for timeslot 1.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bit 2 is for timeslot 2.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bit 3 is for timeslot 3.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bit 4 is for timeslot 4.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bit 5 is for timeslot 5.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bit 6 is for timeslot 6.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>The value 0 of a bit means the corresponding timeslot is not used for measurement. The value 1 of a bit means the corresponding timeslot is used for measurement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Bit 0 is the first/leftmost bit of the bit string.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Range Bound</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxDCHMeasurementOccasionPatternSequence</td>
<td>Maximum number of measurement occasion pattern sequence</td>
</tr>
</tbody>
</table>

### 9.2.3.112 Adaptive Special Burst Power Capability LCR

This parameter defines whether the NodeB supports Adaptive Special Burst Power.

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Reference</th>
<th>Semantics Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptive Special Burst Power Capability LCR</td>
<td></td>
<td></td>
<td>ENUMERATED (Adaptive Special Burst Power Capable, Adaptive Special Burst Power non Capable)</td>
<td></td>
</tr>
</tbody>
</table>
9.3 Message and Information Element Abstract Syntax (with ASN.1)

9.3.0 General
Subclause 9.3 presents the Abstract Syntax of NBAP protocol with ASN.1. In case there is contradiction between the ASN.1 definition in this subclause and the tabular format in subclauses 9.1 and 9.2, the ASN.1 shall take precedence, except for the definition of conditions for the presence of conditional elements, where the tabular format shall take precedence.

The ASN.1 definition specifies the structure and content of NBAP messages. NBAP messages can contain any IEs specified in the object set definitions for that message without the order or number of occurrence being restricted by ASN.1. However, for this version of the standard, a sending entity shall construct a NBAP message according to the PDU definitions module and with the following additional rules (Note that in the following IE means an IE in the object set with an explicit id. If one IE needed to appear more than once in one object set, then the different occurrences have different IE ids):

- IEs shall be ordered (in an IE container) in the order they appear in object set definitions.
- Object set definitions specify how many times IEs may appear. An IE shall appear exactly once if the presence field in an object has value "mandatory". An IE may appear at most once if the presence field in an object has value "optional" or "conditional". If in a tabular format there is multiplicity specified for an IE (i.e. an IE list) then in the corresponding ASN.1 definition the list definition is separated into two parts. The first part defines an IE container list where the list elements reside. The second part defines list elements. The IE container list appears as an IE of its own. For this version of the standard an IE container list may contain only one kind of list elements.

If a NBAP message that is not constructed as defined above is received, this shall be considered as Abstract Syntax Error, and the message shall be handled as defined for Abstract Syntax Error in subclause 10.3.6.

9.3.1 Usage of Private Message mechanism for non-standard use
The private message mechanism for non-standard use may be used.
- For special operator- (and/or vendor) specific features considered not to be part of the basic functionality, i.e. the functionality required for a complete and high-quality specification in order to guarantee multi-vendor inter-operability.
- By vendors for research purposes, e.g. to implement and evaluate new algorithms/features before such features are proposed for standardisation.

The private message mechanism shall not be used for basic functionality. Such functionality shall be standardised.

9.3.2 Elementary Procedure Definitions
NBAP-PDU-Descriptions {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Descriptions (0) }

DEFINITIONS AUTOMATIC TAGS ::= 

BEGIN 

-- ************************************************************
-- IE parameter types from other modules.
-- ************************************************************

IMPORTS
  Criticality,
  ProcedureID,
  MessageDiscriminator,
  TransactionID
FROM NBAP-CommonDataTypes

  CommonTransportChannelSetupRequestFDD,
  CommonTransportChannelSetupRequestTDD,
  CommonTransportChannelSetupResponse,
  CommonTransportChannelSetupFailure,
  CommonTransportChannelReconfigurationRequestFDD,
  CommonTransportChannelReconfigurationRequestTDD,
  CommonTransportChannelReconfigurationResponse,
  CommonTransportChannelReconfigurationFailure,
  CommonTransportChannelDeletionRequest,
  CommonTransportChannelDeletionResponse,
  BlockResourceRequest,
  BlockResourceResponse,
  BlockResourceFailure,
  UnblockResourceIndication,
  AuditFailure,
  AuditRequiredIndication,
  AuditRequest,
  AuditResponse,
  CommonMeasurementInitiationRequest,
  CommonMeasurementInitiationResponse,
  CommonMeasurementInitiationFailure,
  CommonMeasurementReport,
  CommonMeasurementTerminationRequest,
  CommonMeasurementFailureIndication,
  CellSetupRequestFDD,
  CellSetupRequestTDD,
  CellSetupResponse,
  CellSetupFailure,
  CellReconfigurationRequestFDD,
  CellReconfigurationRequestTDD,
  CellReconfigurationResponse,
  CellReconfigurationFailure,
  CellDeletionRequest,
CellDeletionResponse,
InformationExchangeInitiationRequest,
InformationExchangeInitiationResponse,
InformationExchangeFailure,
InformationReport,
InformationExchangeTerminationRequest,
InformationExchangeFailureIndication,
BearerRearrangementIndication,
ResourceStatusIndication,
SystemInformationUpdateRequest,
SystemInformationUpdateResponse,
SystemInformationUpdateFailure,
ResetRequest,
ResetResponse,
RadioLinkActivationCommandFDD,
RadioLinkActivationCommandTDD,
RadioLinkPreemptionRequiredIndication,
RadioLinkSetupRequestFDD,
RadioLinkSetupRequestTDD,
RadioLinkSetupResponseFDD,
RadioLinkSetupResponseTDD,
RadioLinkSetupFailureFDD,
RadioLinkSetupFailureTDD,
RadioLinkAdditionRequestFDD,
RadioLinkAdditionRequestTDD,
RadioLinkAdditionResponseFDD,
RadioLinkAdditionResponseTDD,
RadioLinkAdditionFailureFDD,
RadioLinkAdditionFailureTDD,
RadioLinkParameterUpdateIndicationFDD,
RadioLinkParameterUpdateIndicationTDD,
RadioLinkReconfigurationPrepareFDD,
RadioLinkReconfigurationPrepareTDD,
RadioLinkReconfigurationReady,
RadioLinkReconfigurationFailure,
RadioLinkReconfigurationCommit,
RadioLinkReconfigurationCancel,
RadioLinkReconfigurationRequestFDD,
RadioLinkReconfigurationRequestTDD,
RadioLinkReconfigurationResponse,
RadioLinkDeletionRequest,
RadioLinkDeletionResponse,
DL-PowerControlRequest,
DL-PowerTimeslotControlRequest,
DedicatedMeasurementInitiationRequest,
DedicatedMeasurementInitiationResponse,
DedicatedMeasurementInitiationFailure,
DedicatedMeasurementReport,
DedicatedMeasurementTerminationRequest,
DedicatedMeasurementFailureIndication,
RadioLinkFailureIndication,
RadioLinkRestoreIndication,
CompressedModeCommand,
ErrorIndication,
PrivateMessage,
PhysicalSharedChannelReconfigurationRequestTDD,
PhysicalSharedChannelReconfigurationResponse,
PhysicalSharedChannelReconfigurationFailure,
CellSynchronisationInitiationRequestTDD,
CellSynchronisationInitiationResponseTDD,
CellSynchronisationInitiationFailureTDD,
CellSynchronisationReconfigurationRequestTDD,
CellSynchronisationReconfigurationResponseTDD,
CellSynchronisationReconfigurationFailureTDD,
CellSynchronisationAdjustmentRequestTDD,
CellSynchronisationAdjustmentResponseTDD,
CellSynchronisationAdjustmentFailureTDD,
CellSynchronisationReportRequestTDD,
CellSynchronisationTerminationRequestTDD,
CellSynchronisationFailureIndicationTDD,
MBMSNotificationUpdateCommand,
UEStatusUpdateCommand,
SecondaryULFrequencyReport,
SecondaryULFrequencyUpdateIndication
FROM NBAP-PDU-Contents

id-audit,
id-auditRequired,
id-blockResource,
id-cellDeletion,
id-cellReconfiguration,
id-cellSetup,
id-cellSynchronisationInitiation,
id-cellSynchronisationReconfiguration,
id-cellSynchronisationReporting,
id-cellSynchronisationTermination,
id-cellSynchronisationFailure,
id-commonMeasurementFailure,
id-commonMeasurementInitiation,
id-commonMeasurementReport,
id-commonMeasurementTermination,
id-commonTransportChannelDelete,
id-commonTransportChannelReconfigure,
id-commonTransportChannelSetup,
id-compressedModeCommand,
id-dedicatedMeasurementFailure,
id-dedicatedMeasurementInitiation,
id-dedicatedMeasurementReport,
id-dedicatedMeasurementTermination,
id-downlinkPowerControl,
id-downlinkPowerTimeslotControl,
id-errorIndicationForDedicated,
id-errorIndicationForCommon,
id-informationExchangeFailure,
id-informationExchangeInitiation,
id-informationReporting,
id-informationExchangeTermination,
id-BearerRearrangement,
id-mBMSNotificationUpdate,
id-physicalSharedChannelReconfiguration,
id-privateMessageForDedicated,
id-privateMessageForCommon,
id-radioLinkActivation,
id-radioLinkAddition,
id-radioLinkDeletion,
id-radioLinkFailure,
id-radioLinkParameterUpdate,
id-radioLinkPreemption,
id-radioLinkRestoration,
id-radioLinkSetup,
id-reset,
id-resourceStatusIndication,
id-cellSynchronisationAdjustment,
id-synchronisedRadioLinkReconfigurationCancellation,
id-synchronisedRadioLinkReconfigurationCommit,
id-synchronisedRadioLinkReconfigurationPreparation,
id-systemInformationUpdate,
id-unblockResource,
id-unSynchronisedRadioLinkReconfiguration,
id-uEStatusUpdate,
id-secondaryULFrequencyReporting,
id-secondaryULFrequencyUpdate

FROM NBAP-Constants;

-- ****************************************************************
-- Interface Elementary Procedure Class
-- ****************************************************************

NBAP-ELEMENTARY-PROCEDURE ::= CLASS {
  &InitiatingMessage
  &SuccessfulOutcome OPTIONAL,
  &UnsuccessfulOutcome OPTIONAL,
  &Outcome OPTIONAL,
  &messageDiscriminator MessageDiscriminator,
  &procedureID ProcedureID UNIQUER,
  &criticality Criticality DEFAULT ignore
}

WITH SYNTAX {
  INITIATING MESSAGE &InitiatingMessage
  [SUCCESSFUL OUTCOME &SuccessfulOutcome]
  [UNSUCCESSFUL OUTCOME &UnsuccessfulOutcome]
  [OUTCOME &Outcome]
  MESSAGE DISCRIMINATOR &messageDiscriminator
  PROCEDURE ID &procedureID
  [CRITICALITY &criticality]
}
NBAP-PDU ::= CHOICE {
  initiatingMessage InitiatingMessage,
  succesfulOutcome SuccessfulOutcome,
  unsuccesfulOutcome UnsuccessfulOutcome,
  outcome Outcome,
  ...
}

InitiatingMessage ::= SEQUENCE {
  procedureID NBAP-ELEMENTARY-PROCEDURE.&procedureID({NBAP-ELEMENTARY-PROCEDURES}),
  criticality NBAP-ELEMENTARY-PROCEDURE.&criticality({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
  messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
  transactionID TransactionID,
  value NAEBP-ELEMENTARY-PROCEDURE.&InitiatingMessage({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
}

SuccessfulOutcome ::= SEQUENCE {
  procedureID NBAP-ELEMENTARY-PROCEDURE.&procedureID({NBAP-ELEMENTARY-PROCEDURES}),
  criticality NBAP-ELEMENTARY-PROCEDURE.&criticality({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
  messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
  transactionID TransactionID,
  value NAEBP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
}

UnsuccessfulOutcome ::= SEQUENCE {
  procedureID NBAP-ELEMENTARY-PROCEDURE.&procedureID({NBAP-ELEMENTARY-PROCEDURES}),
  criticality NBAP-ELEMENTARY-PROCEDURE.&criticality({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
  messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
  transactionID TransactionID,
  value NAEBP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
}

Outcome ::= SEQUENCE {
  procedureID NBAP-ELEMENTARY-PROCEDURE.&procedureID({NBAP-ELEMENTARY-PROCEDURES}),
  criticality NBAP-ELEMENTARY-PROCEDURE.&criticality({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
  messageDiscriminator NBAP-ELEMENTARY-PROCEDURE.&messageDiscriminator({NBAP-ELEMENTARY-PROCEDURES}{@procedureID}),
  transactionID TransactionID,
  value NAEBP-ELEMENTARY-PROCEDURE.&Outcome({NBAP-ELEMENTARY-PROCEDURES}{@procedureID})
}

-- ************************************************************
-- Interface Elementary Procedure List
-- ************************************************************

NBAP-ELEMENTARY-PROCEDURES NBAP-ELEMENTARY-PROCEDURE ::= {

NBAP-ELEMENTARY-PROCEDURES-CLASS-1
NBAP-ELEMENTARY-PROCEDURE ::= {
    cellSetupFDD
    cellSetupTDD
    cellReconfigurationFDD
    cellReconfigurationTDD
    cellDeletion
    commonTransportChannelSetupFDD
    commonTransportChannelSetupTDD
    commonTransportChannelReconfigureFDD
    commonTransportChannelReconfigureTDD
    commonTransportChannelDelete
    audit
    blockResource
    radioLinkSetupFDD
    radioLinkSetupTDD
    systemInformationUpdate
    commonMeasurementInitiation
    radioLinkAdditionFDD
    radioLinkAdditionTDD
    radioLinkDeletion
    reset
    synchronisedRadioLinkReconfigurationPreparationFDD
    synchronisedRadioLinkReconfigurationPreparationTDD
    unsynchronisedRadioLinkReconfigurationFDD
    unsynchronisedRadioLinkReconfigurationTDD
    dedicatedMeasurementInitiation
    physicalSharedChannelReconfigurationFDD
    physicalSharedChannelReconfigurationTDD
    ..., informationExchangeInitiation
    cellSynchronisationInitiationTDD
    cellSynchronisationReconfigurationTDD
    cellSynchronisationAdjustmentTDD
    physicalSharedChannelReconfigurationFDD
}

NBAP-ELEMENTARY-PROCEDURES-CLASS-2
NBAP-ELEMENTARY-PROCEDURE ::= {
    resourceStatusIndication
    auditRequired
    commonMeasurementReport
    commonMeasurementTermination
    commonMeasurementFailure
    synchronisedRadioLinkReconfigurationCommit
    synchronisedRadioLinkReconfigurationCancellation
    radioLinkFailure
    radioLinkPreemption
    radioLinkRestoration
    dedicatedMeasurementReport
    dedicatedMeasurementTermination
    dedicatedMeasurementFailure
}
-- Class 1

-- *** CellSetup (FDD) ***
cellSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CellSetupRequestFDD
  SUCCESSFUL OUTCOME CellSetupResponse
  UNSUCCESSFUL OUTCOME CellSetupFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-cellSetup, ddMode fdd } CRITICALITY reject
}

-- *** CellSetup (TDD) ***
cellSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CellSetupRequestTDD
  SUCCESSFUL OUTCOME CellSetupResponse
  UNSUCCESSFUL OUTCOME CellSetupFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-cellSetup, ddMode tdd } CRITICALITY reject
}
ETSI

-- *** CellReconfiguration(FDD) ***
cellReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CellReconfigurationRequestFDD
  SUCCESSFUL OUTCOME CellReconfigurationResponse
  UNSUCCESSFUL OUTCOME CellReconfigurationFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-cellReconfiguration, ddMode fdd }
  CRITICALITY reject
}

-- *** CellReconfiguration(TDD) ***
cellReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CellReconfigurationRequestTDD
  SUCCESSFUL OUTCOME CellReconfigurationResponse
  UNSUCCESSFUL OUTCOME CellReconfigurationFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-cellReconfiguration, ddMode tdd }
  CRITICALITY reject
}

-- *** CellDeletion ***
cellDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CellDeletionRequest
  SUCCESSFUL OUTCOME CellDeletionResponse
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-cellDeletion, ddMode common }
  CRITICALITY reject
}

-- *** CommonTransportChannelSetup (FDD) ***
commonTransportChannelSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CommonTransportChannelSetupRequestFDD
  SUCCESSFUL OUTCOME CommonTransportChannelSetupResponse
  UNSUCCESSFUL OUTCOME CommonTransportChannelSetupFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-commonTransportChannelSetup, ddMode fdd }
  CRITICALITY reject
}

-- *** CommonTransportChannelSetup (TDD) ***
commonTransportChannelSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CommonTransportChannelSetupRequestTDD
  SUCCESSFUL OUTCOME CommonTransportChannelSetupResponse
  UNSUCCESSFUL OUTCOME CommonTransportChannelSetupFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-commonTransportChannelSetup, ddMode tdd }
  CRITICALITY reject
}

-- *** CommonTransportChannelReconfigure (FDD) ***
commonTransportChannelReconfigureFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CommonTransportChannelReconfigurationRequestFDD
  SUCCESSFUL OUTCOME CommonTransportChannelReconfigurationResponse

UNSUCCESSFUL OUTCOME CommonTransportChannelReconfigurationFailure
MESSAGE DISCRIMINATOR common
PROCEDURE ID { procedureCode id-commonTransportChannelReconfigure, ddMode fdd }
CRITICALITY reject

-- *** CommonTransportChannelReconfigure (TDD) ***
commonTransportChannelReconfigureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CommonTransportChannelReconfigurationRequestTDD
  SUCCESSFUL OUTCOME CommonTransportChannelReconfigurationResponse
  UNSUCCESSFUL OUTCOME CommonTransportChannelReconfigurationFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-commonTransportChannelReconfigure, ddMode tdd }
  CRITICALITY reject
}

-- *** CommonTransportChannelDelete ***
commonTransportChannelDelete NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CommonTransportChannelDeletionRequest
  SUCCESSFUL OUTCOME CommonTransportChannelDeletionResponse
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-commonTransportChannelDelete, ddMode common }
  CRITICALITY reject
}

-- *** Audit ***
audit NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE AuditRequest
  SUCCESSFUL OUTCOME AuditResponse
  UNSUCCESSFUL OUTCOME AuditFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-audit, ddMode common }
  CRITICALITY reject
}

-- *** BlockResourceRequest ***
blockResource NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE BlockResourceRequest
  SUCCESSFUL OUTCOME BlockResourceResponse
  UNSUCCESSFUL OUTCOME BlockResourceFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-blockResource, ddMode common }
  CRITICALITY reject
}

-- *** RadioLinkSetup (FDD) ***
radioLinkSetupFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkSetupRequestFDD
  SUCCESSFUL OUTCOME RadioLinkSetupResponseFDD
  UNSUCCESSFUL OUTCOME RadioLinkSetupFailureFDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-radioLinkSetup, ddMode fdd }
  CRITICALITY reject
}
**--- *** RadioLinkSetup (TDD) *** ---**

```
radioLinkSetupTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkSetupRequestTDD
  SUCCESSFUL OUTCOME  RadioLinkSetupResponseTDD
  UNSUCCESSFUL OUTCOME RadioLinkSetupFailureTDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID    { procedureCode id-radioLinkSetup, ddMode tdd }
  CRITICALITY    reject
}
```

**--- *** SystemInformationUpdate *** ---**

```
systemInformationUpdate NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  SystemInformationUpdateRequest
  SUCCESSFUL OUTCOME  SystemInformationUpdateResponse
  UNSUCCESSFUL OUTCOME SystemInformationUpdateFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID    { procedureCode id-systemInformationUpdate, ddMode common }
  CRITICALITY    reject
}
```

**--- *** Reset *** ---**

```
reset NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  ResetRequest
  SUCCESSFUL OUTCOME  ResetResponse
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID    { procedureCode id-reset, ddMode common }
  CRITICALITY    reject
}
```

**--- *** CommonMeasurementInitiation *** ---**

```
commonMeasurementInitiation NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  CommonMeasurementInitiationRequest
  SUCCESSFUL OUTCOME  CommonMeasurementInitiationResponse
  UNSUCCESSFUL OUTCOME CommonMeasurementInitiationFailure
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID    { procedureCode id-commonMeasurementInitiation, ddMode common }
  CRITICALITY    reject
}
```

**--- *** RadioLinkAddition (FDD) *** ---**

```
radioLinkAdditionFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkAdditionRequestFDD
  SUCCESSFUL OUTCOME  RadioLinkAdditionResponseFDD
  UNSUCCESSFUL OUTCOME RadioLinkAdditionFailureFDD
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID    { procedureCode id-radioLinkAddition, ddMode fdd }
  CRITICALITY    reject
}
```

**--- *** RadioLinkAddition (TDD) *** ---**

```
radioLinkAdditionTDD NBAP-ELEMENTARY-PROCEDURE ::= {
```
INITIATING MESSAGE  RadioLinkAdditionRequestTDD
SUCCESSFUL OUTCOME  RadioLinkAdditionResponseTDD
UNSUCCESSFUL OUTCOME  RadioLinkAdditionFailureTDD
MESSAGE DISCRIMINATOR  dedicated
PROCEDURE ID  { procedureCode id-radioLinkAddition, ddMode tdd }
CRITICALITY  reject

-- *** RadioLinkDeletion ***
radioLinkDeletion NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkDeletionRequest
  SUCCESSFUL OUTCOME  RadioLinkDeletionResponse
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID  { procedureCode id-radioLinkDeletion, ddMode common }
  CRITICALITY  reject
}

-- *** SynchronisedRadioLinkReconfigurationPreparation (FDD) ***
synchronisedRadioLinkReconfigurationPreparationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkReconfigurationPrepareFDD
  SUCCESSFUL OUTCOME  RadioLinkReconfigurationReady
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID  { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode fdd }
  CRITICALITY  reject
}

-- *** SynchronisedRadioLinkReconfigurationPreparation (TDD) ***
synchronisedRadioLinkReconfigurationPreparationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkReconfigurationPrepareTDD
  SUCCESSFUL OUTCOME  RadioLinkReconfigurationReady
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID  { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode tdd }
  CRITICALITY  reject
}

-- *** UnSynchronisedRadioLinkReconfiguration (FDD) ***
unSynchronisedRadioLinkReconfigurationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkReconfigurationRequestFDD
  SUCCESSFUL OUTCOME  RadioLinkReconfigurationResponse
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID  { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode fdd }
  CRITICALITY  reject
}

-- *** UnSynchronisedRadioLinkReconfiguration (TDD) ***
unSynchronisedRadioLinkReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  RadioLinkReconfigurationRequestTDD
  SUCCESSFUL OUTCOME  RadioLinkReconfigurationResponse
  UNSUCCESSFUL OUTCOME  RadioLinkReconfigurationFailure
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID  { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }

ETSI
--- *** DedicatedMeasurementInitiation *** ---

**dedicatedMeasurementInitiation**

**NBAP-ELEMENTARY-PROCEDURE ::=**

**INITIATING MESSAGE**

DedicatedMeasurementInitiationRequest

**SUCCESSFUL OUTCOME**

DedicatedMeasurementInitiationResponse

**UNSUCCESSFUL OUTCOME**

DedicatedMeasurementInitiationFailure

**MESSAGE DISCRIMINATOR**

dedicated

**PROCEDURE ID**

{ procedureCode id-dedicatedMeasurementInitiation, ddMode common }

**CRITICALITY**

reject

--- *** PhysicalSharedChannelReconfiguration (FDD) *** ---

**physicalSharedChannelReconfigurationFDD**

**NBAP-ELEMENTARY-PROCEDURE ::=**

**INITIATING MESSAGE**

PhysicalSharedChannelReconfigurationRequestFDD

**SUCCESSFUL OUTCOME**

PhysicalSharedChannelReconfigurationResponse

**UNSUCCESSFUL OUTCOME**

PhysicalSharedChannelReconfigurationFailure

**MESSAGE DISCRIMINATOR**

common

**PROCEDURE ID**

{ procedureCode id-physicalSharedChannelReconfiguration, ddMode fdd }

**CRITICALITY**

reject

--- *** PhysicalSharedChannelReconfiguration (TDD) *** ---

**physicalSharedChannelReconfigurationTDD**

**NBAP-ELEMENTARY-PROCEDURE ::=**

**INITIATING MESSAGE**

PhysicalSharedChannelReconfigurationRequestTDD

**SUCCESSFUL OUTCOME**

PhysicalSharedChannelReconfigurationResponse

**UNSUCCESSFUL OUTCOME**

PhysicalSharedChannelReconfigurationFailure

**MESSAGE DISCRIMINATOR**

common

**PROCEDURE ID**

{ procedureCode id-physicalSharedChannelReconfiguration, ddMode tdd }

**CRITICALITY**

reject

--- *** InformationExchangeInitiation *** ---

**informationExchangeInitiation**

**NBAP-ELEMENTARY-PROCEDURE ::=**

**INITIATING MESSAGE**

InformationExchangeInitiationRequest

**SUCCESSFUL OUTCOME**

InformationExchangeInitiationResponse

**UNSUCCESSFUL OUTCOME**

InformationExchangeInitiationFailure

**MESSAGE DISCRIMINATOR**

common

**PROCEDURE ID**

{ procedureCode id-informationExchangeInitiation, ddMode common }

**CRITICALITY**

reject

--- *** CellSynchronisationInitiation (TDD only) *** ---

**cellSynchronisationInitiationTDD**

**NBAP-ELEMENTARY-PROCEDURE ::=**

**INITIATING MESSAGE**

CellSynchronisationInitiationRequestTDD

**SUCCESSFUL OUTCOME**

CellSynchronisationInitiationResponseTDD

**UNSUCCESSFUL OUTCOME**

CellSynchronisationInitiationFailureTDD

**MESSAGE DISCRIMINATOR**

common

**PROCEDURE ID**

{ procedureCode id-cellSynchronisationInitiation, ddMode tdd }

**CRITICALITY**

reject

--- *** CellSynchronisationReconfiguration (TDD only) *** ---
cellSynchronisationReconfigurationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  CellSynchronisationReconfigurationRequestTDD
  SUCCESSFUL OUTCOME CellSynchronisationReconfigurationResponseTDD
  UNSUCCESSFUL OUTCOME CellSynchronisationReconfigurationFailureTDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-cellSynchronisationReconfiguration, ddMode tdd }
  CRITICALITY reject
}

-- *** CellSynchronisationAdjustment (TDD only) ***
cellSynchronisationAdjustmentTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  CellSynchronisationAdjustmentRequestTDD
  SUCCESSFUL OUTCOME CellSynchronisationAdjustmentResponseTDD
  UNSUCCESSFUL OUTCOME CellSynchronisationAdjustmentFailureTDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-cellSynchronisationAdjustment, ddMode tdd }
  CRITICALITY reject
}

-- Class 2
-- *** ResourceStatusIndication ***
resourceStatusIndication NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  ResourceStatusIndication
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-resourceStatusIndication, ddMode common }
  CRITICALITY ignore
}

-- *** AuditRequired ***
auditRequired NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  AuditRequiredIndication
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-auditRequired, ddMode common }
  CRITICALITY ignore
}

-- *** CommonMeasurementReport ***
commonMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  CommonMeasurementReport
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-commonMeasurementReport, ddMode common }
  CRITICALITY ignore
}

-- *** CommonMeasurementTermination ***
commonMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  CommonMeasurementTerminationRequest
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-commonMeasurementTermination, ddMode common }
  CRITICALITY ignore
}

-- *** CommonMeasurementFailure ***
commonMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonMeasurementFailureIndication
    MESSAGE DISCRIMINATOR common
    PROCEDURE ID { procedureCode id-commonMeasurementFailure, ddMode common }
    CRITICALITY ignore
}

-- *** SynchronisedRadioLinkReconfigurationCommit ***
synchronisedRadioLinkReconfigurationCommit NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCommit
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
    CRITICALITY ignore
}

-- *** SynchronisedRadioReconfigurationCancellation ***
synchronisedRadioLinkReconfigurationCancellation NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCancel
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
    CRITICALITY ignore
}

-- *** RadioLinkFailure ***
radioLinkFailure NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkFailureIndication
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID { procedureCode id-radioLinkFailure, ddMode common }
    CRITICALITY ignore
}

-- *** RadioLinkPreemption ***
radioLinkPreemption NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkPreemptionRequiredIndication
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID { procedureCode id-radioLinkPreemption, ddMode common }
    CRITICALITY ignore
}

-- *** RadioLinkRestoration ***
radioLinkRestoration NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkRestoreIndication
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID { procedureCode id-radioLinkRestoration, ddMode common }
    CRITICALITY ignore
}

-- *** DedicatedMeasurementReport ***
dedicatedMeasurementReport NBAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementReport
    MESSAGE DISCRIMINATOR dedicated
    PROCEDURE ID { procedureCode id-dedicatedMeasurementReport, ddMode common }
    CRITICALITY ignore
}
-- *** DedicatedMeasurementTermination ***

```
dedicatedMeasurementTermination NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  DedicatedMeasurementTerminationRequest
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID    { procedureCode id-dedicatedMeasurementTermination, ddMode common }
  CRITICALITY    ignore
}
```

-- *** DedicatedMeasurementFailure ***

```
dedicatedMeasurementFailure NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  DedicatedMeasurementFailureIndication
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID    { procedureCode id-dedicatedMeasurementFailure, ddMode common }
  CRITICALITY    ignore
}
```

-- *** DLPowerControl (FDD only) ***

```
downlinkPowerControlFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  DL-PowerControlRequest
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID    { procedureCode id-downlinkPowerControl, ddMode fdd }
  CRITICALITY    ignore
}
```

-- *** DLPowerTimeslotControl (TDD only) ***

```
downlinkPowerTimeslotControl NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  DL-PowerTimeslotControlRequest
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID    { procedureCode id-downlinkPowerTimeslotControl, ddMode tdd }
  CRITICALITY    ignore
}
```

-- *** CompressedModeCommand (FDD only) ***

```
compressedModeCommand NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  CompressedModeCommand
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID    { procedureCode id-compressedModeCommand, ddMode fdd }
  CRITICALITY    ignore
}
```

-- *** UnblockResourceIndication ***

```
unblockResource NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  UnblockResourceIndication
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID    { procedureCode id-unblockResource, ddMode common }
  CRITICALITY    ignore
}
```

-- *** ErrorIndication for Dedicated procedures ***

```
errorIndicationForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE  ErrorIndication
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID    { procedureCode id-errorIndicationForDedicated, ddMode common }
}
3GPP TS 25.433 version 9.5.0 Release 9

-- *** ErrorIndication for Common procedures ***
errorIndicationForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE ErrorIndication
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-errorIndicationForCommon, ddMode common }
  CRITICALITY ignore
}

-- *** CellSynchronisationReporting (TDD only) ***
cellSynchronisationReportingTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CellSynchronisationReportTDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-cellSynchronisationReporting, ddMode tdd }
  CRITICALITY ignore
}

-- *** CellSynchronisationTermination (TDD only) ***
cellSynchronisationTerminationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CellSynchronisationTerminationRequestTDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-cellSynchronisationTermination, ddMode tdd }
  CRITICALITY ignore
}

-- *** CellSynchronisationFailure (TDD only) ***
cellSynchronisationFailureTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE CellSynchronisationFailureIndicationTDD
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-cellSynchronisationFailure, ddMode tdd }
  CRITICALITY ignore
}

-- *** PrivateMessage for Dedicated procedures ***
privateMessageForDedicated NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE PrivateMessage
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID { procedureCode id-privateMessageForDedicated, ddMode common }
  CRITICALITY ignore
}

-- *** PrivateMessage for Common procedures ***
privateMessageForCommon NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE PrivateMessage
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID { procedureCode id-privateMessageForCommon, ddMode common }
  CRITICALITY ignore
}

-- *** InformationReporting ***
informationReporting NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE InformationReport
}
MESSAGE DISCRIMINATOR  common
PROCEDURE ID   { procedureCode id-informationReporting, ddMode common }
CRITICALITY  ignore

-- *** InformationExchangeTermination ***
InformationExchangeTermination NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE InformationExchangeTerminationRequest
  MESSAGE DISCRIMINATOR  common
  PROCEDURE ID   { procedureCode id-informationExchangeTermination, ddMode common }
  CRITICALITY  ignore
}

-- *** InformationExchangeFailure ***
InformationExchangeFailure NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE InformationExchangeFailureIndication
  MESSAGE DISCRIMINATOR  common
  PROCEDURE ID   { procedureCode id-informationExchangeFailure, ddMode common }
  CRITICALITY  ignore
}

-- *** BearerRearrangement ***
BearerRearrangement NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE BearerRearrangementIndication
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID   { procedureCode id-BearerRearrangement, ddMode common }
  CRITICALITY  ignore
}

-- *** RadioLinkActivation (FDD) ***
RadioLinkActivationFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkActivationCommandFDD
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID   { procedureCode id-radioLinkActivation, ddMode fdd }
  CRITICALITY  ignore
}

-- *** RadioLinkActivation (TDD) ***
RadioLinkActivationTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkActivationCommandTDD
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID   { procedureCode id-radioLinkActivation, ddMode tdd }
  CRITICALITY  ignore
}

-- *** RadioLinkParameterUpdate (FDD) ***
RadioLinkParameterUpdateFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkParameterUpdateIndicationFDD
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID   { procedureCode id-radioLinkParameterUpdate, ddMode fdd }
  CRITICALITY  ignore
}

-- *** RadioLinkParameterUpdate (TDD) ***
RadioLinkParameterUpdateTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkParameterUpdateIndicationTDD
  MESSAGE DISCRIMINATOR  dedicated
  PROCEDURE ID   { procedureCode id-radioLinkParameterUpdate, ddMode tdd }
  CRITICALITY  ignore
}
radioLinkParameterUpdateTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE RadioLinkParameterUpdateIndicationTDD
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID  { procedureCode id-radioLinkParameterUpdate, ddMode tdd }
  CRITICALITY  ignore
}

-- *** MBMSNotificationUpdate ***
MBMSNotificationUpdateTDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE MBMSNotificationUpdateCommand
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID  { procedureCode id-MBMSNotificationUpdate, ddMode common }
  CRITICALITY  ignore
}

-- *** UEStatusUpdate ***
UERadioLinkStatusUpdate TDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE UERadioLinkStatusUpdate
  MESSAGE DISCRIMINATOR common
  PROCEDURE ID  { procedureCode id-UERadioLinkStatusUpdate, ddMode common }
  CRITICALITY  ignore
}

-- *** SecondaryULFrequencyReporting (FDD) ***
SecondaryULFrequencyReportingFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE SecondaryULFrequencyReport
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID  { procedureCode id-secondaryULFrequencyReporting, ddMode fdd }
  CRITICALITY  ignore
}

-- ***secondaryULFrequencyUpdate (FDD)***
SecondaryULFrequencyUpdateFDD NBAP-ELEMENTARY-PROCEDURE ::= {
  INITIATING MESSAGE SecondaryULFrequencyUpdateIndication
  MESSAGE DISCRIMINATOR dedicated
  PROCEDURE ID  { procedureCode id-secondaryULFrequencyUpdate, ddMode fdd }
  CRITICALITY  ignore
}

END

9.3.3   PDU Definitions

-- *****************************************************
-- PDU definitions for NBAP.
-- *****************************************************

NBAP-PDU-Contents {
  itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
  umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
-- ******************************************************************************
--
-- IE parameter types from other modules.
--
-- ******************************************************************************

IMPORTS
Active-Pattern-Sequence-Information,
AddorDeleteIndicator,
AICH-Power,
AICH-TransmissionTiming,
AllocationRetentionPriority,
AlternativeFormatReportingIndicator,
AvailabilityStatus,
BCCH-ModificationTime,
BindingID,
BlockingPriorityIndicator,
BroadcastReference,
SCTD-Indicator,
Cause,
CCTrCH-ID,
Cell-ERNTI-Status-Information,
CellParameterID,
CellPortionID,
CellSyncBurstCode,
CellSyncBurstCodeShift,
CellSyncBurstRepetitionPeriod,
CellSyncBurstSIR,
CellSyncBurstTiming,
CellSyncBurstTimingThreshold,
CellPortion-CapabilityLCR,
CFN,
ChipOffset,
C-ID,
Closedloopoptimizationadjustmentmode,
CommonChannelsCapacityConsumptionLaw,
Compressed-Mode-Deactivation-Flag,
Common-MACFlows-to-DeleteFDD,
CommonMeasurementAccuracy,
CommonMeasurementType,
CommonMeasurementValue,
CommonMeasurementValueInformation,
CommonPhysicalChannelID,
CommonPhysicalChannelID768,
Common-EDCH-Capability,
Common-E-DCH-HSDPCCCH-Capability,
Common-EDCH-System-InformationFDD,
Common-EDCH-System-Information-ResponseFDD,
Common-PhysicalChannel-Status-Information,
Common-PhysicalChannel-Status-Information768,
Common-TransportChannel-Status-Information,
CommonTransportChannelID,
CommonTransportChannel-InformationResponse,
CommunicationControlPortID,
ConfigurationGenerationID,
ConstantValue,
ContinuousPacketConnectivityDTX-DRX-Capability,
ContinuousPacketConnectivityDTX-DRX-Information,
ContinuousPacketConnectivityHS-SCCH-less-Capability,
ContinuousPacketConnectivityHS-SCCH-less-Information,
ContinuousPacketConnectivityHS-SCCH-less-Information-Response,
ContinuousPacketConnectivity-DRX-CapabilityLCR,
ContinuousPacketConnectivity-DRX-InformationLCR,
ContinuousPacketConnectivity-DRX-Information-ResponseLCR,
CPC-InformationLCR,
CPC-Information,
CriticalityDiagnostics,
CRNC-CommunicationContextID,
CSBMeasurementID,
CSBTransmissionID,
DCH-FDD-Information,
DCH-Indicator-For-E-DCH-HSDPA-Operation,
DCH-InformationResponse,
DCH-ID,
FDD-DCHs-to-Modify,
TDD-DCHs-to-Modify,
DCH-TDD-Information,
DedicatedChannelsCapacityConsumptionLaw,
DedicatedMeasurementType,
DedicatedMeasurementValue,
DedicatedMeasurementValueInformation,
DelayedActivation,
DelayedActivationUpdate,
DiversityControlField,
DiversityMode,
DL-DPCH-SlotFormat,
DL-DPCH-TimingAdjustment,
DL-or-Global-CapacityCredit,
DL-Power,
DL-PowerBalancing-Information,
DL-PowerBalancing-ActivationIndicator,
DLPowerAveragingWindowSize,
DL-PowerBalancing-UpdatedIndicator,
DL-ScramblingCode,
DL-TimeslotISCP,
DL-Timeslot-Information,
DL-TimeslotLCR-Information,
DL-TimeslotISCPInfo,
DL-TimeslotISCPInfoLCR,
DL-TPC-Pattern01Count,
DPC-Mode,
DPCH-ID,
DPCH-ID768,
DSCH-ID,
DSCH-InformationResponse,
DSCH-TDD-Information,
Dual-Band-Capability-Info,
DwpCH-Power,
E-AICH-FDD-Code-Information,
E-AI-Capability,
E-DCH-Capability,
E-DCH-CapacityConsumptionLaw,
E-DCH-TTI2ms-Capability,
E-DCH-SF-Capability,
E-DCH-HARQ-Combining-Capability,
E-DCH-FDD-DL-Control-Channel-Information,
E-DCH-FDD-Information,
E-DCH-FDD-Information-Response,
E-DCH-FDD-Information-to-Modify,
E-DCH-FDD-Update-Information,
E-DCH-MACdFlow-ID,
E-DCH-MACdFlows-Information,
E-DCH-MACdFlows-to-Delete,
E-DCH-MACdPDUs-SizeCapability,
E-DCH-RL-Indicator,
E-DCH-Serving-Cell-Change-Info-Response,
E-DPCCH-PO,
E-RGCH-E-HICH-FDD-Code-Information,
E-RGCH-2-IndexStepThreshold,
E-RGCH-3-IndexStepThreshold,
End-Of-Audit-Sequence-Indicator,
Enhanced-PACH-Capability,
Enhanced-PCH-Capability,
Enhanced-UE-DRX-Capability,
Enhanced-UE-DRX-InformationFDD,
E-TFCS-Information,
E-TTT,
ExtendedPropagationDelay,
Fast-Reconfiguration-Mode,
Fast-Reconfiguration-Permission,
FDD-DL-ChannelisationCodeNumber,
FDD-DL-CodeInformation,
FDD-S-CCPCH-FrameOffset,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
P-DPCH-Capability,
P-DPCH-SlotFormat,
P-DPCH-SlotFormatCapability,
FirstRLS-Indicator,
FNReportingIndicator,
FPACH-Power,
FrameAdjustmentValue,
FrameHandlingPriority,
FrameOffset,
HARQ-Info-for-E-DCH,
HSDPA-Capability,
HSDSCH-Common-System-InformationFDD,
HSDSCH-Common-System-Information-ResponseFDD,
HSDSCH-Configured-Indicator,
HSDSCH-Paging-System-Information-FDD,  
HSDSCH-Paging-System-Information-Response-FDD,  
HS-DSCH-Serving-Cell-Change-Info,  
HS-DSCH-Serving-Cell-Change-Info-Response,  
HS-DSCH-MACdPDU-SizeCapability,  
HS-PDSCH-FDD-Code-Information,  
HS-SCCH-ID,  
HS-SCCH-FDD-Code-Information,  
HS-SICH-ID,  
IB-OC-ID,  
IB-SG-DATA,  
IB-SG-FCS,  
IB-SG-REP,  
IB-Type,  
InformationExchangeID,  
InformationReportCharacteristics,  
InformationType,  
Initial-DL-DPCH-TimingAdjustment-Allowed,  
InnerLoopDLPFCStatus,  
IPDL-FDD-Parameters,  
IPDL-TDD-Parameters,  
IPDL-Indicator,  
IPDL-TDD-Parameters-LCR,  
IPMulticastIndication,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
Maximum-Target-ReceivedTotalWideBandPower,  
MaximumTransmissionPower,  
MaxNrofUL-DFDCRs,  
Max-Set-E-DFDCRs,  
MaxPRACH-MidambleShifts,  
Max-UE-DTX-Cycle,  
MBMS-Capability,  
MeasurementFilterCoefficient,  
MeasurementID,  
MeasurementRecoveryBehavior,  
MeasurementRecoveryReportingIndicator,  
MeasurementRecoverySupportIndicator,  
MICH-CFN,  
MICH-Mode,  
MidambleAllocationMode,  
MidambleShiftAndBurstType,  
MidambleShiftAndBurstType768,  
MidambleShiftLCR,  
MinimumDL-PowerCapability,  
MinimumUL-ChannelisationCodeLength,  
Modification-Period,  
MultiplexingPosition,  
NCyclesPerSFNperiod,  
NRepetitionsPerCyclePeriod,  

ETS
RL-Specific-DCH-Info,  
RL-Specific-E-DCH-Info,  
Received-total-wide-band-power-Value,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
RNC-ID,  
ScramblingCodeNumber,  
Secondary-CPICH-Information-Change,  
Secondary-CCPCH-SlotFormat,  
Segment-Type,  
Semi-PersistentScheduling-CapabilityLCR,  
Serving-E-DCH-RL-ID,  
SixteenQAM-UL-Capability,  
SixtyfourQAM-DL-Capability,  
SixtyfourQAM-DL-MIMO-Combined-Capability,  
SFN,  
SFNSFNChangeLimit,  
SFNSFNDriftRate,  
SFNSFNDriftRateQuality,  
SFNSFNQuality,  
ShutdownTimer,  
SIB-Originator,  
SpecialBurstScheduling,  
SignallingBearerRequestIndicator,  
Start-Of-Audit-Sequence-Indicator,  
STTD-Indicator,  
SSDT-SupportIndicator,  
E-DPCCH-Power-Boosting-Capability,  
SyncCase,  
SYNC1CodeId,  
SyncFrameNumber,  
SynchronisationReportCharacteristics,  
SynchronisationReportType,  
Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio,  
T-Cell,  
T-RLFAILURE,  
TDD-ChannelisationCode,  
TDD-ChannelisationCodeLCR,  
TDD-ChannelisationCode768,  
TDD-DL-Code-LCR-Information,  
TDD-DPCHOffset,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TDD-UL-Code-LCR-Information,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCI-Code,  
TimeSlot,  
TimeSlotLCR,  
TimeSlotDirection,  
TimeSlotStatus,  
TimingAdjustmentValue,  

748
TimingAdvanceApplied,
Th1Qos,
ToANR,
ToAWS,
TransmissionDiversityApplied,
TransmitDiversityIndicator,
TransmissionGapPatternSequenceCodeInformation,
Transmission-Gap-Pattern-Sequence-Information,
TransportBearerRequestIndicator,
TransportFormatSet,
TransportLayerAddress,
TS-CC-Indicator,
TUTRANGPS,
TUTRANGPSChangeLimit,
TUTRANGPSDriftRate,
TUTRANGPSDriftRateQuality,
TUTRANGPSQuality,
UARFCN,
UC-Id,
USCH-Information,
USCH-InformationResponse,
UL-CapacityCredit,
UL-DPCCH-SlotFormat,
UL-DPCCH-Indicator-For-E-DCH-Operation,
UL-SIR,
UL-FP-Mode,
UL-PhysCH-SF-Variation,
UL-ScramblingCode,
UL-Timeslot-Information,
UL-TimeslotLCR-Information,
UL-TimeSlot-1SCP-Info,
UL-TimeSlot-1SCP-LCR-Info,
UL-Timeslot1SCP-Value,
UL-Timeslot1SCP-Value-IncrDecrThres,
USCH-ID,
HSDSCH-FDD-Information,
HSDSCH-FDD-Information-Response,
HSDSCH-Information-to-Modify,
HSDSCH-Information-to-Modify-Unsynchronised,
HSDSCH-MACDFlow-ID,
HSDSCH-MACDFlows-Information,
HSDSCH-MACDFlows-to-Delete,
HSDSCH-RNTI,
HSDSCH-TDD-Information,
HSDSCH-TDD-Information-Response,
PrimaryCCPCH-RSCP,
HSDSCH-FDD-Update-Information,
HSDSCH-TDD-Update-Information,
UL-Synchronisation-Parameters-LCR,
TDD-DL-DPCH-TimeSlotFormat-LCR,
TDD-UL-DPCH-TimeSlotFormat-LCR,
TDD-TPC-UplinkStepSize-LCR,
CellSyncBurstTimingLCR,
TimingAdjustmentValueLCR,
PrimaryCCPCH-RSCP-Delta, 
SynchronisationIndicator, 
TDD-UL-Code-768-Information, 
UL-Timeslot768-Information, 
TDD-DL-Code-768-Information, 
DL-Timeslot768-Information, 
E-DCH-TDD-CapacityConsumptionLaw, 
E-DCH-Information, 
E-DCH-Information-Response, 
E-DCH-Information-Reconfig, 
LGI-Presence, 
SNPL-Reporting-Type, 
E-AQCH-Id, 
E-HICH-TimeOffset, 
Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells, 
E-DCH-768-Information, 
E-DCH-768-Information-Reconfig, 
RTWP-ReportingIndicator, 
RTWP-CellPortion-ReportingIndicator, 
MAChs-ResetIndicator, 
E-DCH-LCR-Information, 
E-DCH-LCR-Information-Reconfig, 
E-HICH-ID-TDD, 
E-HICH-TimeOffsetLCR, 
E-HICH-Type, 
ModulationPO-MBSFN, 
Secondary-CIPCH-SlotFormat-Extended, 
ModulationMBSFN, 
MBSFN-Only-Mode-Indicator, 
MBSFN-Only-Mode-Capability, 
UPPCHPositionLCR, 
ControlGAP, 
IdleIntervalInformation, 
Extended-HS-SICH-ID, 
Extended-HS-SCCH-ID, 
TimeslotLCR-Extension, 
Extended-E-HICH-ID-TDD, 
AdditionalTimeslotListLCR, 
AdditionalMeasurementValueList, 
HS-SCCH-ID-LCR, 
Paging-MACFlows-to-DeleteLCR, 
HSDSCH-Paging-System-InformationLCR, 
HSDSCH-Paging-System-Information-ResponseLCR, 
HSDSCH-Common-System-InformationLCR, 
HSDSCH-Common-System-Information-ResponseLCR, 
Enhanced-UR-DRX-InformationLCR, 
E-DCH-MACdFlow-ID-LCR, 
Common-EDCH-System-InformationLCR, 
Common-EDCH-System-Information-ResponseLCR, 
Common-MACFlows-to-DeleteLCR, 
DL-HS-PDSCH-Timeslot-Information-LCR-PSCCH-ReconfRqst, 
E-DCH-MACdFlows-to-DeleteLCR, 
HSDSCH-PreconfigurationSetup, 
HSDSCH-PreconfigurationInfo,
NoOfTargetCellHS-SCCH-Order,
EnhancedHSServingCC-Abort,
GANSS-Time-ID,
HS-DSCH-FDD-Secondary-Serving-Update-Information,
HS-DSCH-Secondary-Serving-Remove,
HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised,
HS-DSCH-Secondary-Serving-Information-To-Modify,
HS-DSCH-Secondary-Serving-Cell-Change-Information-Response,
HS-DSCH-FDD-Secondary-Serving-Information-Response,
HS-DSCH-FDD-Secondary-Serving-Information,
Multi-Cell-Capability-Info,
MinimumReducedE-DPDCCH-GainFactor,
IMB-Parameters,
E-RNTI,
E-DCH-Semi-PersistentScheduling-Information-LCR,
HS-DSCH-Semi-PersistentScheduling-Information-LCR,
Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst,
Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst,
Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst,
Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext,
HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR,
E-DCH-Semi-PersistentScheduling-Information-ResponseLCR,
HSSICH-ReferenceSignal-InformationLCR,
UE-Selected-MBMS-Service-Information,
UE-AggregateMaximumBitRate,
HSSICH-ReferenceSignal-InformationModifyLCR,
TimeSlotMeasurementValueListLCR,
MIMO-PowerOffsetForS-CPICHCapability,
MIMO-PilotConfigurationExtension,
TxDiversityOnDLControlChannelsByMIMOUCapability,
Single-Stream-MIMO-Capability,
ActivationInformation,
Cell-Capability-Container,
DormantModeIndicator,
Additional-EDCH-Setup-Info,
Additional-EDCH-Cell-Information-Response-List,
Additional-EDCH-Cell-Information-To-Add-List,
Additional-EDCH-FDD-Update-Information,
TS0-CapabilityLCR,
Out-of-Synchronisation-Window,
DCH-MeasurementOccasion-Information,
Additional-EDCH-Cell-Information-Response-RLReconfList,
Setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency,
Additional-EDCH-Cell-Information-Response-RL-Add-List,
PrecodingWeightSetRestriction,
Non-Serving-RL-Preconfig-Setup,
Non-Serving-RL-Preconfig-Info,
Adaptive-Special-Burst-Power-CapabilityLCR

FROM NBAP-IEs

PrivateIE-Container{},
ProtocolExtensionContainer{},

ETSI
ProtocolIE-Container{},
ProtocolIE-Single-Container{},
ProtocolIE-ContainerList{},
NBAP-PRIVATE-IES,
NBAP-PROTOCOL-IES,
NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers

id-Active-Sequence-Information,
id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD,
id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD,
id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRqstTDD,
id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRqstTDD,
id-AdjustmentRatio,
id-AICH-Information,
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,
id-AlternativeFormatReportingIndicator,
id-BCH-Information,
id-BCH-ModificationTime,
id-bindingID,
id-BlockingPriorityIndicator,
id-BroadcastReference,
id-Cause,
id-CauseLevel-PSCH-ReconfFailure,
id-CauseLevel-RL-AdditionFailureFDD,
id-CauseLevel-RL-AdditionFailureTDD,
id-CauseLevel-RL-ReconfFailure,
id-CauseLevel-RL-SetupFailureFDD,
id-CauseLevel-RL-SetupFailureTDD,
id-CauseLevel-SyncAdjustmntFailureTDD,
id-CCP-InformationItem-AuditRsp,
id-CCP-InformationList-AuditRsp,
id-CCP-InformationItem-ResourceStatusInd,
id-CCP-InformationItem-ResourceStatusInd,
id-CCP-InformationItem-ResourceStatusInd,
id-CCP-InformationItem-ResourceStatusInd,
id-CCP-InformationItem-ResourceStatusInd,
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD,
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD,
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD,
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD,
id-CellSyncInfo-CellSyncReptTDD,
id-CellPortion-CapabilityLCR,
id-CFN,
id-CFNReportingIndicator,
id-C-ID,
id-Closed-Loop-Timing-Adjustment-Mode,
id-Common-EDCH-Capability,
id-Common-B-EDCH-HS-DPCCH-Capability,
id-Common-EDCH-MACFlows-to-DeleteFDD,
id-Common-EDCH-System-InformationFDD,
id-Common-EDCH-System-Information-ResponseFDD,
id-Common-MACFlows-to-DeleteFDD,
id-CommonMeasurementAccuracy,
id-CommonMeasurementObjectType-CM-Rprt,
id-CommonMeasurementObjectType-CM-Rqst,
id-CommonMeasurementObjectType-CM-Rsp,
id-CommonMeasurementType,
id-CommonPhysicalChannelID,
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,
id-CommonPhysicalChannelType-CTCH-ReconfRqstTDD,
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,
id-Common-UL-MACFlows-to-DeleteFDD,
id-CommunicationContextInfoItem-Reset,
id-CommunicationControlPortID,
id-CommunicationControlPortInfoItem-Reset,
id-Compressed-Mode-Deactivation-Flag,
id-ConfigurationGenerationID,
id-ContinuousPacketConnectivityDTX-DRX-Capability,
id-ContinuousPacketConnectivityDTX-DRX-Information,
id-ContinuousPacketConnectivityHS-SCCH-less-Capability,
id-ContinuousPacketConnectivityHS-SCCH-less-Information,
id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response,
id-ContinuousPacketConnectivity-DRX-CapabilityLCR,
id-ContinuousPacketConnectivity-DRX-InformationLCR,
id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR,
id-CPC-InformationLCR,
id-CPC-Information,
id-CRNC-CommunicationContextID,
id-CriticalityDiagnostics,
id-CSBTransmissionID,
id-CSBMeasurementID,
id-DCHs-to-Add-FDD,
id-DCHs-to-Add-TDD,
id-DCH-AddList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfPrepFDD,
id-DCH-DeleteList-RL-ReconfPrepTDD,
id-DCH-DeleteList-RL-ReconfRqstFDD,
id-DCH-DeleteList-RL-ReconfRqstTDD,
id-DCH-Information,
id-DCH-TDD-Information,
id-DCH-Indicator-For-R-EDCH-HSDPA-Operation,
id-DCH-InformationResponse,
id-DCH-RearrangeList-Bearer-RearrangeInd,
id-DSCH-RearrangeList-Bearer-RearrangeInd,
id-FDD-DCCHs-to-Modify,
id-FDD-SCCPCH-FrameOffset-CTCH-SetupRqstFDD,
id-TDD-DCCHs-to-Modify,
id-DedicatedMeasurementObjectType-DM-Rpt,
id-DedicatedMeasurementObjectType-DM-Rqst,
id-DedicatedMeasurementObjectType-DM-Rsp,
id-DedicatedMeasurementType,
id-DelayedActivation,
id-DelayedActivationList-RL-ActivationCmdFDD,
id-DelayedActivationList-RL-ActivationCmdTDD,
id-DelayedActivationInformation-RL-ActivationCmdFDD,
id-DelayedActivationInformation-RL-ActivationCmdTDD,
id-DL-CCTrCH-InformationAddList-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-DL-DPCH-InformationAddList-RL-ReconfPrepTDD,
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationAddListIE-RL-ReconfRqstTDD,
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationDeleteListIE-RL-ReconfRqstTDD,
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfRqstTDD,
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfRqstTDD,
id-DL-DPCH-Information-RL-ReconfPrepFDD,
id-DL-DPCH-Information-RL-ReconfRqstFDD,
id-DL-DPCH-Information-RL-ReconfRqstTDD,
id-DL-DPCH-Information-RL-SetupRqstFDD,
id-DL-DPCH-Information-RL-SetupRqstTDD,
id-DL-DPCH-TimingAdjustment,
id-DL-DPCH-Power-Information-RL-ReconfPrepFDD,
id-DL-DPCH-Power-Information-RL-ReconfPrepTDD,
id-DL-PowerBalancing-Information,
id-DL-PowerBalancing-ActivationIndicator,
id-DL-PowerBalancing-UpdatedIndicator,
id-DL-RReferencePower,
id-DL-RReferencePowerList-RL-PC-Rqst,
id-DL-TPC-Pattern01Count,
id-DPC-Mode,
id-DPCCHConstant,
id-DSCHs-to-Add-TDD,
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,
id-DSCH-InformationResponse,
id-DSCH-TDD-Information,
id-Dual-Band-Capability-Info,
id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code,
id-E-AI-Capability,
id-E-AGCH-FDD-Code-Information,
id-InformationReportCharacteristics,
id-InformationType,
id-InitDL-Power,
id-InitDL-DPCH-TimingAdjustment,
id-InitDL-DPCH-TimingAdjustment-Allowed,
id-InnerLoopDLPDCCstatus,
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD,
id-IPDLParameter-Information-Cell-ReconfRqstFDD,
id-IPDLParameter-Information-Cell-ReconfRqstTDD,
id-IPDLParameter-Information-Cell-SetupRqstFDD,
id-IPDLParameter-Information-Cell-SetupRqstTDD,
id-IPMUnicastIndication,
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD,
id-Limited-power-increase-information-Cell-SetupRqstFDD,
id-Local-Cell-ID,
id-Local-Cell-Group-InformationItem-AuditRsp,
id-Local-Cell-Group-InformationItem-ResourceStatusInd,
id-Local-Cell-Group-InformationItem2-ResourceStatusInd,
id-Local-Cell-Group-InformationList-AuditRsp,
id-Local-Cell-InformationItem-AuditRsp,
id-Local-Cell-InformationItem-ResourceStatusInd,
id-Local-Cell-InformationItem2-ResourceStatusInd,
id-Local-Cell-InformationList-AuditRsp,
id-AdjustmentPeriod,
id-MaxAdjustmentStep,
id-MaxTransmissionPower,
id-Max-UE-DTX-Cycle,
id-MeasurementFilterCoefficient,
id-MeasurementID,
id-MeasurementRecoveryBehavior,
id-MeasurementRecoveryReportingIndicator,
id-MeasurementRecoverySupportIndicator,
id-MBMS-Capability,
id-MCH-CFPN,
id-MICH-Information-AuditRsp,
id-MICH-Information-ResourceStatusInd,
id-MICH-Parameters-CTCH-ReconfRqstFDD,
id-MICH-Parameters-CTCH-ReconfRqstTDD,
id-MICH-Parameters-CTCH-SetupRqstFDD,
id-MICH-Parameters-CTCH-SetupRqstTDD,
id-MIMO-Capability,
id-MIMO-PilotConfiguration,
id-Modification-Period,
id-multipleRL-dl-DPCH-InformationList,
id-multipleRL-dl-DPCH-InformationModifyList,
id-multipleRL-dl-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-multiple-RL-Information-RL-ReconfPrepTDD,
id-multiple-RL-Information-RL-ReconfRqstTDD,
id-multipleRL-ul-DPCH-InformationList,
id-multipleRL-ul-DPCH-InformationModifyList,
id-NCI-CyclesPerSPNperiod,
id-NeighbouringCellMeasurementInformation,
id-NI-Information-NotifUpdateCmd,
id-NodeB-CommunicationContextID,
id-NRRepetitionsPerCyclePeriod,
id-NumberOfReportedCellPortions,
id-NumberOfReportedCellPortionsLCR,
id-Paging-MACFlows-to-DeleteFDD,
id-P-CPPCH-Information,
id-P-CFICH-Information,
id-P-SCH-Information,
id-PCCPCH-Information-Cell-ReconfRqstTDD,
id-PCCPCH-Information-Cell-SetupRqstTDD,
id-PCH-Parameters-CTCH-ReconfRqstTDD,
id-PCH-Parameters-CTCH-SetupRsp,
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,
id-PCH-ParametersItem-CTCH-SetupRqstFDD,
id-PCH-ParametersItem-CTCH-SetupRqstTDD,
id-PCH-Information,
id-PICH-ParametersItem-CTCH-ReconfRqstFDD,
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PDSCH-RL-ID,
id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR,
id-PDSCHSets-AddList-PSCH-ReconfRqst,
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,
id-PICH-Information,
id-PICH-Parameters-CTCH-ReconfRqstTDD,
id-PICH-ParametersItem-CTCH-SetupRqstTDD,
id-PICH-Information-AuditRsp,
id-PICH-Information-ResourceStatusInd,
id-PICH-Information-RL-ReconfPrepTDDLCR,
id-PICH-InformationList-AuditRsp,
id-PICH-InformationList-ResourceStatusInd,
id-PICH-Parameters-CTCH-ReconfRqstTDD,
id-PowerAdjustmentType,
id-Power-Local-Cell-Group-choice-CM-Rqst,
id-Power-Local-Cell-Group-choice-CM-Rsp,
id-Power-Local-Cell-Group-choice-CM-Rprt,
id-Power-Local-Cell-Group-InformationItem-AuditRsp,
id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd,
id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd,
id-Power-Local-Cell-Group-InformationList-AuditRsp,
id-Power-Local-Cell-Group-InformationList-ResourceStatusInd,
id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd,
id-Power-Local-Cell-Group-ID,
id-PRACH-Information,
id-PRACHConstant,
id-PRACH-ParametersItem-CTCH-SetupRqstTDD,
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,
id-Primary-CPICH-Usage-for-Channel-Estimation,
id-PrimarySCH-Information-Cell-ReconfRqstFDD,
id-PrimarySCH-Information-Cell-SetupRqstFDD,
id-PrimarySCH-Information-Cell-SetupRqstTDD,
id-SCH-Information-Cell-ReconfRqstFDD,
id-SCH-Information-Cell-ReconfRqstTDD,
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,
id-PUSCH-Information-AddModifyListIE-PSCH-ReconfRqst,
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,
id-RL-Set-InformationItem-DM-Rpt,
id-RL-Set-InformationItem-DM-Rsp,
id-RL-Set-InformationItem-RL-FailureInd,
id-RL-Set-InformationItem-RL-RestoreInd,
id-RL-Specific-DCH-Info,
id-RL-Specific-E-DCH-Info,
id-S-CCPCH-Information,
id-S-CCPCH-InformationListExt-AuditRsp,
id-S-CCPCH-InformationListExt-ResourceStatusInd,
id-S-CCPCH-LCR-InformationListExt-AuditRsp,
id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd,
id-S-CFICH-Information,
id-SCH-Information,
id-S-SCH-Information,
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,
id-Secondary-CPICH-Information,
id-SecondaryCFICH-InformationItem-Cell-ReconfRqstTDD,
id-SecondaryCFICH-InformationItem-Cell-SetupRqstTDD,
id-SecondaryCFICH-InformationList-Cell-ReconfRqstTDD,
id-SecondaryCFICH-InformationList-Cell-SetupRqstTDD,
id-Secondary-CPICH-Information-Change,
id-SecondarySCH-Information-Cell-ReconfRqstTDD,
id-SecondarySCH-Information-Cell-SetupRqstTDD,
id-Semi-PersistentScheduling-CapabilityLCR,
id-SegmentInformationListIE-SystemInfoUpdate,
id-Serving-Cell-Change-CFN,
id-Serving-E-DCH-RL-ID,
id-SixteenQAM-UL-Capability,
id-SixtyfourQAM-UL-Capability,
id-SixtyfourQAM-DL-MIMO-Combined-Capability,
id-SFN,
id-SFNReportingIndicator,
id-ShutdownTimer,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-SignallingBearerRequestIndicator,
id-TimeslotISCPInfo,
id-TimingAdvanceApplied,
id-TnlQos,
id-TransmissionDiversityApplied,
id-transportlayeraddress,
id-Tstd-indicator,
id-UARFCNforNl,
id-UARFCNforNd,
id-UARFCNforNu,
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,
id-UL-DPCH-InformationList-RL-SetupRqstTDD,
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,
id-UL-DPCH-Information-RL-ReconfPrepFDD,
id-UL-DPCH-Information-RL-ReconfRqstFDD,
id-UL-DPCH-Information-RL-SetupRqstFDD,
id-UL-DPCH-Indicator-For-E-DCH-Operation,
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD,
id-Unsuccessful-FOSCHSetItem-FSCH-ReconfFailureTDD,
id-Unsuccessful-FOSCHSetItem-FSCH-ReconfFailureTDD,
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,
id-USCH-Information-Add,
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,
id-USCH-InformationResponse,
id-USCH-Information,
id-USCH-RearrangeList-Bearer-RearrangeInd,
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD,
id-DwPCH-LCR-Information,
id-DwPCH-LCR-InformationList-AuditRsp,
id-DwPCH-LCR-Information-Cell-SetupRqstTDD,
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD,
id-DwPCH-LCR-Information-ResourceStatusInd,
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD,
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD,
id-FPACH-LCR-Information,
id-FPACH-LCR-Information-AuditRsp,
id-FPACH-LCR-InformationList-AuditRsp,
id-FPACH-LCR-InformationList-ResourceStatusInd,
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD,
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD,
id-PCPCH-LCR-Information-Cell-SetupRqstTDD,
id-PCH-Power-LCR-CTCH-SetupRqstTDD,
id-PCH-Power-LCR-CTCH-ReconfRqstTDD,
id-PICH-LCR-Parameters-CTCH-SetupRqstTDD,
id-PICH-LCR-ParametersList-CTCH-SetupRqstTDD,
id-RL-InformationResponse-LCR-RL-SetupRspTDD
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD,
id-TimeSlot,
id-TimeslotConfigurationList-LCR-Cell-ReconfRqstTDD,
id-TimeslotConfigurationList-LCR-Cell-SetupRqstTDD,
id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD,
id-TimeSlotLCR-CM-Rqst,
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD,
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,
id-DL-DPCH-InformationAddList-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD,
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DPCH-LCR-InformationModify-AddList,
id-DL-DPCH-LCR-InformationModify-AddList,
id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD,
id-DwPCH-Power,
id-AccumulatedClockupdate-CellSyncReptTDD,
id-HSDPA-Capability,
id-HSDSCH-FDD-Information,
id-HSDSCH-Common-System-InformationFDD,
id-HSDSCH-Common-System-Information-ResponseFDD,
id-HSDSCH-FDD-Information-Response,
id-HSDSCH-Information-to-Modify,
id-HSDSCH-Information-to-Modify-Unsynchronized,
id-HSDSCH-MACFlows-to-Add,
id-HSDSCH-MACFlows-to-Delete,
id-HSDSCH-Paging-System-InformationFDD,
id-HSDSCH-Paging-System-Information-ResponseFDD,
id-HSDSCH-RearrangeList-Bearer-RearrangeInd,
id-HSDSCH-Resources-Information-AuditRsp,
id-HSDSCH-Resources-Information-ResourceStatusInd,
id-HSDSCH-RNTI,
id-HSDSCH-TDD-Information,
id-HSDSCH-TDD-Information-Response,
id-HSPDSCH-RL-ID,
id-HSSICH-Info-DM-Rpt,
id-HSSICH-Info-DM-Rqst,
id-HSSICH-Info-DM-Rsp,
id-PrSimCCPCH-SCCP-DL-PC-RqstTDD,
id-HSDSCH-FDD-Update-Information,
id-HSDSCH-TDD-Update-Information,
id-UL-Synchronisation-Parameters-LCR,
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,
id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD,
id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD,
id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD,
id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD,
id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD,
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD,
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD,
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD,
id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD,
id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD,
id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD,
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD,
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD,
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD,
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD,
id-TDD-TPC-DownlinkStepSize-LCR-RL-AdditionRqstTDD,
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD,
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD,
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD,
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD,
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD,
id-TimingAdjustmentValueLCR,
id-PrimaryCCPCH-RSCP-Delta,
id-Maximum-Target-ReceivedTotalWideBandPower,
id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp,
id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp,
id-SynchronisationIndicator,
id-Reference-ReceivedTotalWideBandPower,
id-Reference-ReceivedTotalWideBandPowerReporting,
id-Reference-ReceivedTotalWideBandPowerSupportIndicator,
id-Maximum-Target-ReceivedTotalWideBandPower-LCR,
id-multiple-PUSCH-InfoList-DM-Rsp,
id-multiple-PUSCH-InfoList-DM-Rpt,
id-Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio,
id-multiple-HSICHMeasurementValueList-TDD-DM-Rsp,
id-PCCPCH-768-Information-Cell-SetupRqstTDD,
id-SCH-768-Information-Cell-SetupRqstTDD,
id-SCH-768-Information-Cell-ReconfRqstTDD,
id-PCCPCH-768-Information-Cell-ReconfRqstTDD,
id-P-CCPCH-768-Information-AuditRsp,
id-PICH-768-Information-AuditRsp,
id-PRACH-768-InformationList-AuditRsp,
id-SCH-768-Information-ResourceStatusInd,
id-DPCH-ID768-DM-Rprt,
id-PDSCH-AddInformation-768-PSCH-ReconfRqst,
id-PDSCH-ModifyInformation-768-PSCH-ReconfRqst,
id-PUSCH-AddInformation-768-PSCH-ReconfRqst,
id-PUSCH-ModifyInformation-768-PSCH-ReconfRqst,
id-DL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRqst,
id-HS-SCCH-Information-768-PSCH-ReconfRqst,
id-HS-SCCH-InformationModify-768-PSCH-ReconfRqst,
id-tFCI-Presence,
id-E-RUCCH-InformationList-AuditRsp,
id-E-RUCCH-InformationList-ResourceStatusInd,
id-E-RUCCH-Information,
id-E-DCH-Information,
id-E-DCH-Information-Response,
id-E-DCH-Information-Reconfig,
id-E-PUSCH-Information-PSCH-ReconfRqst,
id-Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst,
id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst,
id-Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst,
id-E-HICH-Information-PSCH-ReconfRqst,
id-E-DCH-TDD-CapacityConsumptionLaw,
id-E-HICH-TimeOffset,
id-Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells,
id-E-DCH-Serving-RL-ID,
id-E-RUCCH-768-InformationList-AuditRsp,
id-E-RUCCH-768-InformationList-ResourceStatusInd,
id-E-RUCCH-768-Information,
id-E-DCH-768-Information,
id-E-DCH-768-Information-Reconfig,
id-E-PUSCH-Information-768-PSCH-ReconfRqst,
id-Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst,
id-Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst,
id-E-HICH-Information-768-PSCH-ReconfRqst,
id-RTWP-ReportingIndicator,
id-RTWP-CellPortion-ReportingIndicator,
id-Received-Scheduled-EDCH-Power-Share-Value,
id-Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value,
id-Received-Scheduled-EDCH-Power-Share,
id-Received-Scheduled-EDCH-Power-Share-For-CellPortion,
ueCapability-Info,
MACHs-ResetIndicator,
id-SYNC-UL-Partition-LCR,
id-E-DCH-LCR-Information,
id-E-DCH-LCR-Information-Reconfig,
id-E-PUSCH-Information-LCR-PSCH-ReconfRqst,
id-Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-Delete-From-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-E-HICH-TimeOffsetLCR,
id-HSDSCH-MACdPDU-SizeCapability,
id-ModulationPO-MBSFN,
id-Secondary-CCPCH-SlotFormat-Extended,
id-MBSFN-Only-Mode-Indicator-Cell-SetupRqstTDD-LCR,
id-Time-Slot-Parameter-ID,
id-MBSFN-Only-Mode-Capability,
id-MBSFN-Cell-ParameterID-Cell-SetupRqstTDD,
id-MBSFN-Cell-ParameterID-Cell-ReconfRqstTDD,
id-S-CCPCH-Modulation,
id-TimeSlotConfigurationList-LCR-CTCH-SetupRqstTDD,
id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp,
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp,
id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD,
id-UPFCHAdjustment,
id-Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd,
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd,
id-UPPCHPositionLCR,
id-UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD,
id-UPPCH-LCR-InformationList-AuditRsp,
id-UPPCH-LCR-InformationItem-AuditRsp,
id-UPPCH-LCR-InformationList-ResourceStatusInd,
id-UPPCH-LCR-InformationItem-ResourceStatusInd,
id-multipleFreq-dl-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst,
id-multipleFreq-HS-DCH-Resources-InformationList-AuditRsp,
id-multipleFreq-HS-DCH-Resources-InformationList-ResourceStatusInd,
id-UPFCHNSpecificCauseList,id-Unsuccessful-UPFCHItem-PSCH-ReconfFailureTDD,
id-MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst,
id-Extended-HS-SCCH-ID,
id-Extended-HS-SICH-ID,
id-HSSICH-InfoExt-DM-Rgst,
id-Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRqst,
id-HS-SCCH-InformationExt-LCR-PSCH-ReconfRqst,
id-HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRqst,
id-PowerControlGAP,
id-PowerControlGAP-For-CellFACHLCR,
id-IdleIntervalInformation,
id-MBSFN-SpecialTimeSlot-NonLCR,
id-MultipleFreq-E-DCH-Resources-InformationList-AuditRsp,
id-MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd,
id-MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst,
id-Extended-E-HICH-ID-TDD,
id-B-DCH-MACPDU-SizeCapability,
id-B-HICH-Offset-Extension,
id-MultipleFreq-B-HICH-OffsetLCR,
id-PLCH-parameters,
id-B-RUCCH-parameters,
id-B-RUCCH-768-parameters,
id-HS-Cause,
id-B-Cause,
id-AdditionalTimeSlotListLCR,
id-AdditionalMeasurementValueList,
id-HS-DSCH-Paging-System-InformationLCR,
id-HS-DSCH-Paging-System-InformationResponseLCR,
id-Enhanced-UE-DRX-CapabilityLCR,
id-Enhanced-UE-DRX-InformationLCR,
id-Common-EDCH-MACFlows-to-DeleteLCR,
id-Common-EDCH-System-InformationLCR,
id-Common-EDCH-System-Information-ResponseLCR,
id-Common-MACFlows-to-DeleteLCR,
id-Common-UL-MACFlows-to-DeleteLCR,
id-HSDSCH-PreconfigurationSetup,
id-HSDSCH-PreconfigurationInfo,
id-NoOfTargetCellHS-SCCH-Order,
id-EnhancedHSServingCC-Abort,
id-GANSSS-Time-ID,
id-Additional-HS-Cell-Information-RL-Setup,
id-Additional-HS-Cell-Information-Response,
id-Additional-HS-Cell-Information-RL-Addition,
id-Additional-HS-Cell-Change-Information-Response,
id-Additional-HS-Cell-Information-RL-Reconf-Prep,
id-Additional-HS-Cell-Information-RL-Reconf-Req,
id-Additional-HS-Cell-Information-RL-Param-Upd,
id-Multi-Cell-Capability-Info,
id-MinimumReducedE-DPDCH-GainFactor,
id-IMB-Parameters,
id-E-RNTI,
id-E-DCH-Semi-PersistentScheduling-Information-LCR,
id-HS-DSCH-Semi-PersistentScheduling-Information-LCR,
id-Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst,
id-Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext,
id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR,
id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR,
id-HSSTICH-ReferenceSignal-InformationLCR,
id-HSSTICH-ReferenceSignal-Information-ModifyLCR,
id-TimeSlotMeasurementValueListLCR,
id-MIMO-Power-Offset-For-S-CPICH-Capability,
id-MIMO-PilotConfigurationExtension,
id-TxDiversityOnDLControlChannelsByMIMOUECapability,
id-UE-AggregateMaximumBitRate,
id-Single-Stream-MIMO-Capability,
id-ActivationInformation,
id-Cell-Capability-Container,
id-DormantModeIndicator,
id-Additional-EDCH-Cell-Information-RL-Setup-Req,
id-Additional-EDCH-Cell-Information-Response,
id-Additional-EDCH-Cell-Information-RL-Add-Req,
id-Additional-EDCH-Cell-Information-Response-RL-Add,
id-Additional-EDCH-Cell-Information-RL-Reconf-Prep,
id-Additional-EDCH-Cell-Information-RL-Reconf-Req,
id-Additional-EDCH-Cell-Information-Bearer-Rearrangement,
id-Additional-EDCH-Cell-Information-RL-Param-Upd,
id-Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst,
id-E-HICH-TimeOffset-ReconfFailureTDD,
id-Common-System-Information-ReconfFailureTDD,
id-Common-System-Information-ResponseLCR,
ETSI

ETSI TS 125 433 V9.5.0 (2011-03)

767

id-TS0-CapabilityLCR,
id-HSSCCH-TPC-StepSize,
id-Out-of-Synchronization-Window,
id-DCH-MeasurementOccasion-Information,
id-Additional-EDCH-Cell-Information-ResponseRLReconf,
id-PrecedingWeightSetRestriction,
id-HSDSCH-RNTI-For-FACH,
id-E-RNTI-For-FACH,
id-Treset-Usage-Indicator,
id-Non-Serving-RL-Preconfig-Info,
id-Non-Serving-RL-Preconfig-Setup,
id-Non-Serving-RL-Preconfig-Removal,
id-Adaptive-Special-Burst-Power-CapabilityLCR,

maxNrOfCCTrChs,
maxNrOfCellSyncBursts,
maxNrOfCodes,
maxNrOfDChs,
maxNrOfDLTs,
maxNrOfDLTSLCRs,
maxNrOfDPCHs,
maxNrOfDPCHsPerRL-1,
maxNrOfDPCHLCRs,
maxNrOfDPCHsLCRPerRL-1,
maxNrOfDPCHs768,
maxNrOfDPCHs768PerRL-1,
maxNrOfDSCCHs,
maxNrOfFACHs,
maxNrOfFACHs-1,
maxNrOfRLs,
maxNrOfRLs-1,
maxNrOfRLs-2,
maxNrOfRLLets,
maxNrOfRLSets,
maxNrOfDSCCHs,
maxNrOfFUSCHs,
maxNrOfFUSCHs-1,
maxNrOfFRACHLCRs,
maxNrOfPDSCCHSets,
maxNrOfPDSCCHs,
maxNrOfRACHsPerSyncFrame,
maxNrOfSCCPCHs,
maxNrOfSCCPCHsinExt,
maxNrOfSCCPLCRLCrs,
maxNrOfSCCPCHsinExt,
maxNrOfSCCPCHs768,
maxNrOfULTS,
maxNrOfULTSLCRs,
maxNrOfUSCHs,
maxFACHCell,
maxFPACHCell,
maxRACHCell,
maxPISCHCell,
maxFRACHCell,
maxSCCPCHCell,
maxSCCPCHCell768,
maxSCCPCHCellinExt,
maxSCCPCHCellinExtLCR,
maxSCCPICCHCell,
maxSCCPICCHCell,
maxCellinNodeB,
maxCCPinNodeB,
maxCommunicationContext,
maxLocalCellinNodeB,
maxNoOfSlotFormatsPRACH,
maxIB,
maxIBSEG,
maxNoOfCellPortionsPerCell,
maxNoOfHSSCCHs,
maxNoOfHSSSICHs,
maxNoOfHSSSICHs-1,
maxNoOfHSPDSCHs,
maxNoOfSyncFramesLCR,
maxNoOfReceptionsperSyncFrameLCR,
maxNoOfMACdFlows,
maxNoOfEEDCMACdFlows,
maxE-RCCHCell,
maxNoOfE-PUCCHCells,
maxNoOfEAAGCHs,
maxNoOfEAAGCHCodes,
maxNoOfE-PUCCHCellsLCR,
maxNoOfEPUChcodes,
maxNoOfEHIICHs,
maxFrequencyinCell,
maxFrequencyinCell-1,
maxNoOfHSSCCHsinExt,
maxNoOfHSSCCHsLCR,
maxNoOfHSSCCHsinExtLCR,
maxNoOfHSSSICHsLCR,
maxNoOfHSSSICHsLCR-1,
maxNoOfEAGCHsLCR,
maxNoOfEAGCHsLCR,
maxNoOfHSDSCH-1,
maxNoOfEDCH-1

FROM NBAP-Constants;

-- *******************************************************************************
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
--
-- *******************************************************************************

CommonTransportChannelSetupRequestFDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{CommonTransportChannelSetupRequestFDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelSetupRequestFDD-Extensions}} OPTIONAL,
  ...
}

CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IEs ::= {
  { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory } |
  { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory } |
  { ID id-CommonPhysicalChannelType-CTCH-SetupRqstFDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCH-SetupRqstFDD PRESENCE mandatory }, ...
}

CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
  secondary-CCPCH-parameters Secondary-CCPCH-CTCH-SetupRqstFDD,
pRACH-parameters PRACH-CTCH-SetupRqstFDD,
notUsed-pCPCCHes-parameters NULL,
... 
}

Secondary-CCPCH-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  fdd-S-CCPCH-Offset FDD-S-CCPCH-Offset,
  dl-ScramblingCode DL-ScramblingCode
  -- This IE shall be present if the PCH Parameters IE is not present
  fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  tFCS TFCS,
  secondary-CCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
  tFCI-Presence TFCI-Presence
  -- This IE shall be present if the Secondary CCPCH Slot Format is set to any of the values from 8 to 17 or if 3.84Mcps TDD IMB is used
  multiplexingPosition MultiplexingPosition,
  powerOffsetInformation PowerOffsetInformation-CTCH-SetupRqstFDD,
  stTD-Indicator STTD-Indicator,
  fACH-Parameters FACH-ParametersList-CTCH-SetupRqstFDD
  pCH-Parameters PCH-Parameters-CTCH-SetupRqstFDD
  iE-Extensions ProtocolExtensionContainer ( Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs ) OPTIONAL,
... 
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MICH-Parameters-CTCH-SetupRqstFDD CRITICALITY reject EXTENSION MICH-Parameters-CTCH-SetupRqstFDD PRESENCE optional } |
  { ID id-FDD-S-CCPCH-FrameOffset-CTCH-SetupRqstFDD CRITICALITY reject EXTENSION FDD-S-CCPCH-FrameOffset PRESENCE optional } |
  { ID id-ModulationPO-MBSFN CRITICALITY reject EXTENSION ModulationPO-MBSFN optional } |
  { ID id-Secondary-CCPCH-SlotFormat-Extended CRITICALITY reject EXTENSION Secondary-CCPCH-SlotFormat-Extended PRESENCE optional } |
  { ID id-IMB-Parameters CRITICALITY reject EXTENSION IMB-Parameters PRESENCE optional }, ...
}

PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
  pO1-ForTFCI-Bits PowerOffset,
  pO3-ForPilotBits PowerOffset,
  iE-Extensions ProtocolExtensionContainer ( PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs ) OPTIONAL,
... 
}
{ ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional } ||
{ ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },
...

PICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  pICH-Power PICH-Power,
  pICH-Mode PICH-Mode,
  sTTD-Indicator STTD-Indicator,
  iE-Extensions ProtocolExtensionContainer {
    { PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs} }
  OPTIONAL,
...
}

PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

MICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  mICH-Power PICH-Power,
  mICH-Mode MICH-Mode,
  sTTD-Indicator STTD-Indicator,
  iE-Extensions ProtocolExtensionContainer {
    { MICH-Parameters-CTCH-SetupRqstFDD-ExtIEs} }
  OPTIONAL,
...
}

MICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PRACH-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  scramblingCodeNumber ScramblingCodeNumber,
  tPDCS TPDCS,
  preambleSignatures PreambleSignatures,
  allowedSlotFormatInformation AllowedSlotFormatInformationList-CTCH-SetupRqstFDD,
  rACH-SubChannelNumbers RACH-SubChannelNumbers,
  ul-punctureLimit FunctureLimit,
  preambleThreshold PreambleThreshold,
  rACH-Parameters RACH-Parameters-CTCH-SetupRqstFDD,
  aICH-Parameters AICH-Parameters-CTCH-SetupRqstFDD,
  iE-Extensions ProtocolExtensionContainer {
    { PRACHItem-CTCH-SetupRqstFDD-ExtIEs} }
  OPTIONAL,
...
}

PRACHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD
AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {  
  rACHSlotFormat RACH-SlotFormat, 
  iE-Extensions ProtocolExtensionContainer {{ AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL, 
  ...
}

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ RACH-ParametersIE-CTCH-SetupRqstFDD }}

RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-ParametersItem-CTCH-SetupRqstFDD  CRITICALITY reject TYPE RACH-ParametersItem-CTCH-SetupRqstFDD PRESENCE mandatory }  
}

RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID, 
  transportFormatSet TransportFormatSet, 
  iE-Extensions ProtocolExtensionContainer {{ RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL, 
  ...
}

RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-bindingID  CRITICALITY ignore EXTENSION BindingID PRESENCE optional }  
  { ID id-transportlayeraddress  CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional },  
  ...
}

AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID, 
  aICH-TransmissionTiming AICH-TransmissionTiming, 
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber, 
  aICH-Power AICH-Power, 
  sTTD-Indicator sTTD-Indicator, 
  iE-Extensions ProtocolExtensionContainer {{ AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL, 
  ...
}

AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****************************************************
-- -- COMMON TRANSPORT CHANNEL SETUP REQUEST TDD
-- *****************************************************

CommonTransportChannelSetupRequestTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {CommonTransportChannelSetupRequestTDD-IEs}, 
  protocolExtensions ProtocolExtensionContainer {CommonTransportChannelSetupRequestTDD-Extensions} OPTIONAL,
  ...
}
CommonTransportChannelSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory }|
    { ID id-CommonPhysicalChannelType-CTCH-SetupRqstTDD CRITICALITY ignore TYPE CommonPhysicalChannelType-CTCH-SetupRqstTDD PRESENCE mandatory },
...
}

CommonTransportChannelSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= CHOICE {
    secondary-CCPCH-parameters Secondary-CCPCH-CTCH-SetupRqstTDD,
    pRACH-parameters PRACH-CTCH-SetupRqstTDD,
    ...
}

Extension-CommonPhysicalChannelType-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ Extension-CommonPhysicalChannelType-CTCH-SetupRqstTDDIE }}

Extension-CommonPhysicalChannelType-CTCH-SetupRqstTDDIE NBAP-PROTOCOL-IES ::= {
    { ID id-PLCCH-parameters CRITICALITY ignore TYPE PLCCH-parameters PRESENCE mandatory }|
    { ID id-E-RUCCH-parameters CRITICALITY ignore TYPE E-RUCCH-parameters PRESENCE mandatory }|
    { ID id-E-RUCCH-768-parameters CRITICALITY ignore TYPE E-RUCCH-768-parameters PRESENCE mandatory }|
...
}

Secondary-CCPCH-CTCH-SetupRqstTDD ::= SEQUENCE {
    sCCPCH-CTTrCH-ID CCTrCH-ID, -- For DL CCTrCH supporting one or several Secondary CCPCHs
    tPCS TPSC, -- For DL CCTrCH supporting one or several Secondary CCPCHs
    tFCI-Coding TFCI-Coding,
    punctureLimit PunctureLimit,
    secondaryCCPCH-parameterList Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
    fACH-ParametersList FACH-ParametersList-CTCH-SetupRqstTDD OPTIONAL,
    pCH-Parameters FCH-Parameters-CTCH-SetupRqstTDD OPTIONAL,
    IE-Extensions ProtocolExtensionContainer {{Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}} OPTIONAL,
...
}

Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Tstd-indicator CRITICALITY reject EXTENSION TSTD-Indicator PRESENCE optional }|
    { ID id-MICH-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION MICH-Parameters-CTCH-SetupRqstTDD PRESENCE optional }|
    { ID id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION Secondary-CCPCH-parameterExtendedList-CTCH-SetupRqstTDD PRESENCE optional }|
-- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be established.

Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD PRESENCE optional }|
  { ID id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD PRESENCE optional }|

Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD

Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  timeslot Timeslot,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  s-CCPCH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
  ...}

Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-tFCI-Presence CRITICALITY notify EXTENSION TFCI-Presence PRESENCE optional},
  ...}

Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHLCRs)) OF Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD

Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  timeslotLCR TimeslotLCR,
  midambleShiftLCR MidambleShiftLCR,
  -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, NodeB shall ignore the contents of this IE.
tdd-PhysicalChannelOffset      TDD-PhysicalChannelOffset,
repetitionPeriod             RepetitionPeriod,
repetitionLength             RepetitionLength,
s-CCPCH-Power                DL-Power,
s-CCPCH-TimeSlotFormat-LCR   TDD-DL-DPCH-TimeSlotFormat-LCR,
iE-Extensions                ProtocolExtensionContainer { { Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}
Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MBSFN-SpecialTimeSlot-LCR CRITICALITY ignore EXTENSION TimeslotLCR-Extension PRESENCE optional },
  -- Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot [19]. The IE 'Time Slot LCR' shall be ignored if this IE appears
  ...
}
Secondary-CCPCH-768-parameterList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs768)) OF Secondary-CCPCH-768-parameterItem-CTCH-SetupRqstTDD

Secondary-CCPCH-768-parameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID768  CommonPhysicalChannelID768,
  tdd-ChannelisationCode768   TDD-ChannelisationCode768,
  timeslot                     Timeslot,
  tFCI-Presence768             TFCI-Presence OPTIONAL,
  midambleShiftandBurstType768 MidambleShiftAndBurstType768,
  tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
  repetitionPeriod             RepetitionPeriod,
  repetitionLength             RepetitionLength,
  s-CCPCH-Power                DL-Power,
  iE-Extensions                ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-768-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
...
}
Secondary-CCPCH-parameterItem-768-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
FACH-ParametersList-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstTDD }}

FACH-ParametersListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IBS ::= {
  { ID id-FACH-ParametersListIE-CTCH-SetupRqstTDD CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-SetupRqstTDD PRESENCE mandatory }
}
FACH-ParametersListIE-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstTDD

FACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonTransportChannelID     CommonTransportChannelID,
  fACH-CCTrCH-ID               CCTrCH-ID,
  dl-TransportFormatSet        TransportFormatSet,
  toAWS                        ToAWS,
  toAWE                        ToAWE,
  iE-Extensions                ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,
FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-maxFACH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power PRESENCE optional } |
  -- Applicable to 1.28Mcps TDD only
  { ID id-bindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional } |
  -- Shall be ignored if bearer establishment with ALCAP.
  { ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional } |
  -- Shall be ignored if bearer establishment with ALCAP.
  { ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional } |
  -- Shall be ignored if bearer establishment with ALCAP.
  { ID id-BroadcastReference CRITICALITY ignore EXTENSION BroadcastReference PRESENCE optional } |
  { ID id-IPMulticastIndication CRITICALITY ignore EXTENSION IPMulticastIndication PRESENCE optional },
  ...
}

PCH-ParametersItem-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstTDD }}

PCH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-SetupRqstTDD PRESENCE mandatory }
}

PCH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,  
  pCH-CCTrCH-ID CCTrCH-ID,  
  dl-TransportFormatSet TransportFormatSet, -- For the DL.  
  toAWS ToAWS,  
  toAWE ToAWE,  
  pICH-Parameters PICH-Parameters-CTCH-SetupRqstTDD,  
  iE-Extensions ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} } OPTIONAL,  
  ...
}

PCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PCH-Power-LCR-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION DL-Power PRESENCE optional } |
  { ID id-bindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional } |
  -- Shall be ignored if bearer establishment with ALCAP.
  { ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional } |
  -- Shall be ignored if bearer establishment with ALCAP.
  { ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },
  ...
}

PICH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-SetupRqstTDD }}

PICH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-768-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION PICH-768-ParametersItem-CTCH-SetupRqstTDD PRESENCE optional } |
  { ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },
  -- Shall be ignored if bearer establishment with ALCAP.
  ...
}
PICH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID     CommonPhysicalChannelID,
tdd-ChannelisationCode     TDD-ChannelisationCode,
tdd-ChannelisationCodeLCR   TDD-ChannelisationCodeLCR,
tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
tdd-PhysicalChannelOffset768 TDD-PhysicalChannelOffset768,
  repetitionPeriod       RepetitionPeriod,
  repetitionLength       RepetitionLength,
pagingIndicatorLength     PagingIndicatorLength,
pICH-Power          PICH-Power,
iE-Extensions       ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }  OPTIONAL,
  ...}

PICH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

PICH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID     CommonPhysicalChannelID,
tdd-ChannelisationCodeLCR   TDD-ChannelisationCodeLCR,
tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
tdd-PhysicalChannelOffset768 TDD-PhysicalChannelOffset768,
  repetitionPeriod       RepetitionPeriod,
  repetitionLength       RepetitionLength,
pagingIndicatorLength     PagingIndicatorLength,
pICH-Power          PICH-Power,
second-TDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
iE-Extensions       ProtocolExtensionContainer { { PICH-LCR-Parameters-CTCH-SetupRqstTDD-ExtIEs} }  OPTIONAL,
  ...}

PICH-LCR-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

PICH-768-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID768   CommonPhysicalChannelID768,
tdd-ChannelisationCode768    TDD-ChannelisationCode768,
tdd-PhysicalChannelOffset768 TDD-PhysicalChannelOffset768,
tdd-PhysicalChannelOffset900 TDD-PhysicalChannelOffset900,
  repetitionPeriod       RepetitionPeriod,
  repetitionLength       RepetitionLength,
pagingIndicatorLength     PagingIndicatorLength,
pICH-Power          PICH-Power,
iE-Extensions       ProtocolExtensionContainer { { PICH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }  OPTIONAL,
... PICH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

MICH-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID       CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset     TDD-PhysicalChannelOffset,
    repetitionPeriod             RepetitionPeriod,
    repetitionLength             RepetitionLength,
    notificationIndicatorLength  NotificationIndicatorLength,
    mICH-Power                   PICH-Power,
    mICH-TDDOptionSpecific-Parameters MICH-TDDOptionSpecific-Parameters-CTCH-SetupRqstTDD,
    iE-Extensions                 ProtocolExtensionContainer {
        MICH-Parameters-CTCH-SetupRqstTDD-ExtIEs
    } OPTIONAL,
    ...
}

MICH-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

MICH-TDDOptionSpecific-Parameters-CTCH-SetupRqstTDD ::= CHOICE {
    hCR-TDD                         MICH-HCRParameters-CTCH-SetupRqstTDD,
    lCR-TDD                         MICH-LCRParameters-CTCH-SetupRqstTDD,
    ...
    cHipRate768-TDD                 MICH-768Parameters-CTCH-SetupRqstTDD
}

MICH-HCRParameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    tdd-ChannelisationCode         TDD-ChannelisationCode,
    timeSlot                       TimeSlot,
    midambleshiftAndBurstType      MidambleShiftAndBurstType,
    iE-Extensions                  ProtocolExtensionContainer {
        MICH-HCRParameters-CTCH-SetupRqstTDD-ExtIEs
    } OPTIONAL,
    ...
}

MICH-LCRParameters-CTCH-SetupRqstTDD ::= SEQUENCE {
    tdd-ChannelisationCodeLCR     TDD-ChannelisationCodeLCR,
    timeSlotLCR                   TimeSlotLCR,
    midambleShiftLCR              MidambleShiftLCR,
    -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, NodeB shall ignore the contents of this IE.
    second-TDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    tSTD-Indicator                 TSTD-Indicator,
    iE-Extensions                  ProtocolExtensionContainer {
        MICH-LCRParameters-CTCH-SetupRqstTDD-ExtIEs
    } OPTIONAL,
    ...
}

ETSIT 125 433 V9.5.0 (2011-03)
MICH-LCR-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MBSFN-SpecialTimeSlot-LCR CRITICALITY ignore EXTENSION TimeslotLCR-Extension PRESENCE optional },
  -- Only for 1.28 Mcps TDD MBSFN only mode, this IE indicates the MBSFN Special Time Slot [19]. The IE 'Time Slot LCR' shall be ignored if this
  IE appears
  ...
}

MICH-768-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
  tdd-ChannelisationCode768 TDD-ChannelisationCode768,
  timeSlot TimeSlot,
  midambleshiftAndBurstType768 MidambleShiftAndBurstType768,
  iE-Extensions ProtocolExtensionContainer { { MICH-768-Parameters-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

MICH-768-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TimeSlotConfigurationList-LCR-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD

TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD ::= SEQUENCE {
  timeslotLCR TimeSlotLCR,
  timeslotLCR-Parameter-ID CellParameterID,
  iE-Extensions ProtocolExtensionContainer { { TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

TimeSlotConfigurationItem-LCR-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Secondary-CCPCH-parameterExtendedList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsinExt)) OF Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD
  -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be established.

Secondary-CCPCH-LCR-parameterExtendedList-CTCH-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHsLCRsinExt)) OF Secondary-CCPCH-LCR-parameterItem-CTCH-SetupRqstTDD
  -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHSLCRs SCCPCHs are to be established.

PRACH-CTCH-SetupRqstTDD ::= SEQUENCE {
  prACH-Parameters-CTCH-SetupRqstTDD PRACH-Parameters-CTCH-SetupRqstTDD,
  iE-Extensions ProtocolExtensionContainer { { PRACH-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

PRACH-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION FPACH-LCR-Parameters-CTCH-SetupRqstTDD PRESENCE optional }
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
  { ID id-PRACH-768-Parameters-CTCH-SetupRqstTDD CRITICALITY reject EXTENSION PRACH-768-ParametersItem-CTCH-SetupRqstTDD PRESENCE optional }
  ...
}
PRACH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersIE-CTCH-SetupRqstTDD }}

PRACH-ParametersIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IERS ::= {
  { ID id-PRACH-ParametersItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-ParametersItem-CTCH-SetupRqstTDD PRESENCE optional } |
  { ID id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD CRITICALITY reject TYPE PRACH-LCR-ParametersList-CTCH-SetupRqstTDD PRESENCE optional } |
}

PRACH-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tFCS TFCs,
  timeslot Timeslot,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  maxPRACH-MidambleShifts MaxPRACH-MidambleShifts,
  pRACH-Midamble PRACH-Midamble,
  RACH RACH-Parameter-CTCH-SetupRqstTDD,
  iE-Extensions ProtocolExtensionContainer {{ PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
...}

PRACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...}

RACH-Parameter-CTCH-SetupRqstTDD ::= ProtocolIE-Single-Container {{ RACH-ParameterIE-CTCH-SetupRqstTDD }}

RACH-ParameterIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IERS ::= {
  { ID id-RACH-ParameterItem-CTCH-SetupRqstTDD CRITICALITY reject TYPE RACH-ParameterItem-CTCH-SetupRqstTDD PRESENCE mandatory } |
}

RACH-ParameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  ul-TransportFormatSet TransportFormatSet, -- For the UL
  iE-Extensions ProtocolExtensionContainer {{ RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs } } OPTIONAL,
...}

RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-bindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional } |
  -- Shall be ignored if bearer establishment with ALCAP.
  { ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional } |
  -- Shall be ignored if bearer establishment with ALCAP.
  { ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },
  -- Shall be ignored if bearer establishment with ALCAP.
...}

PRACH-LCR-ParametersList-CTCH-SetupRqstTDD ::= SEQUENCE {SIZE (1..maxNrOfPRACHLCRs)} OF PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD

PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
781

PRACH-LCR-ParametersItem-CTCH-SetupRqstTDD ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional },
  -- Applicable to 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency of secondary on which PRACH to be set up.
  ...
}

PRACH-768-ParametersItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID768 CommonPhysicalChannelID768,
  tFCS TFCs,
  timeslot TimeSlot,
  tdd-ChannelisationCode768 TDD-ChannelisationCode768,
  maxPRACH-MidambleShifts MaxPRACH-MidambleShifts,
  pRACH-Midamble PRACH-Midamble,
  rACH RACH-Parameter-CTCH-SetupRqstTDD,
  iE-Extensions ProtocolExtensionContainer { { PRACH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
  OPTIONAL,
  ...
}

FPACH-LCR-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  timeslotLCR TimeslotLCR,
  midambleShiftLCR MidambleShiftLCR,
  fPACH-Power FPACH-Power,
  iE-Extensions ProtocolExtensionContainer { { FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
  OPTIONAL,
  ...
}

FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional },
  -- Applicable to 1.28Mcps TDD when using multiple frequencies. This IE indicates the frequency of Secondary Frequency on which FPACH to be set up.
  ...
}

PLCCH-parameters ::= SEQUENCE {
  maxPowerPLCCH DL-Power,
  commonPhysicalChannelID CommonPhysicalChannelID,
  ...
}
PLCCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-RUCCH-parameters ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  timeslot TimeSlot,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  maxE-RUCCH-MidambleShifts MaxPRACH-MidambleShifts,
  e-RUCCH-Midamble PRACH-Midamble,
  iE-Extensions ProtocolExtensionContainer { { E-RUCCH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
  OPTIONAL,
  ...
}

E-RUCCH-768-parameters ::= SEQUENCE {
  commonPhysicalChannelID768 CommonPhysicalChannelID768,
  timeslot TimeSlot,
  tdd-ChannelisationCode768 TDD-ChannelisationCode768,
  maxE-RUCCH-MidambleShifts MaxPRACH-MidambleShifts,
  e-RUCCH-Midamble PRACH-Midamble,
  iE-Extensions ProtocolExtensionContainer { { E-RUCCH-768-ParametersItem-CTCH-SetupRqstTDD-ExtIEs} }
  OPTIONAL,
  ...
}

CommonTransportChannelSetupResponse ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{CommonTransportChannelSetupResponse-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelSetupResponse-Extensions}} OPTIONAL,
  ...
}
CommonTransportChannelSetupResponse-IEs NBAP-PROTOCOL-IES ::= 
{  
  { id FACH-ParametersList-CTCH-SetupRsp CRITICALITY ignore TYPE FACH-CommonTransportChannel-InformationResponse PRESENCE optional }  
  { id PCH-Parameters-CTCH-SetupRsp CRITICALITY ignore TYPE CommonTransportChannel-InformationResponse PRESENCE optional }  
  { id RACH-Parameters-CTCH-SetupRsp CRITICALITY ignore TYPE CommonTransportChannel-InformationResponse PRESENCE optional }  
  { id CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },  
...  
}

CommonTransportChannelSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= 
{ ... }

FACH-CommonTransportChannel-InformationResponse ::= SEQUENCE {SIZE (1..maxNrOfFACHs)} OF CommonTransportChannel-InformationResponse

-- ************************************************************
-- COMMON TRANSPORT CHANNEL SETUP FAILURE
-- ************************************************************

CommonTransportChannelSetupFailure ::= SEQUENCE {  
  protocolIEs ProtocolIE-Container {{CommonTransportChannelSetupFailure-IEs}},  
  protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelSetupFailure-Extensions}} OPTIONAL,  
...  
}

CommonTransportChannelSetupFailure-IEs NBAP-PROTOCOL-IES ::= 
{  
  { id Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }  
  { id CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },  
...  
}

CommonTransportChannelSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= 
{ ... }

-- ************************************************************
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD
-- ************************************************************

CommonTransportChannelReconfigurationRequestFDD ::= SEQUENCE {  
  protocolIEs ProtocolIE-Container {{CommonTransportChannelReconfigurationRequestFDD-IEs}},  
  protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestFDD-Extensions}} OPTIONAL,  
...  
}

CommonTransportChannelReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= 
{ ... }
{ ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory },
{ ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory },
{ ID id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CommonPhysicalChannelType-CTCH-ReconfRqstFDD PRESENCE mandatory },
...
}

CommonTransportChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE {
  secondary-CCPCH-parameters Secondary-CCPCHList-CTCH-ReconfRqstFDD,
  pRACH-parameters PRACHList-CTCH-ReconfRqstFDD,
  notUsed-cPCH-parameters NULL,
  ...
}

Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
  fACH-ParametersList-CTCH-ReconfRqstFDD FACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
  pCH-Parameters-CTCH-ReconfRqstFDD PCH-Parameters-CTCH-ReconfRqstFDD OPTIONAL,
  pICH-Parameters-CTCH-ReconfRqstFDD PICH-Parameters-CTCH-ReconfRqstFDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MICH-Parameters-CTCH-ReconfRqstFDD CRITICALITY ignore EXTENSION MICH-Parameters-CTCH-ReconfRqstFDD PRESENCE optional },
  ...
}

FACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container { { FACH-ParametersListIEs-CTCH-ReconfRqstFDD } }

FACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory },
  ...
}

FACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE { commonTransportChannelID CommonTransportChannelID, maxFACH-Power DL-Power OPTIONAL, toAWS ToAWS OPTIONAL, toAWE ToAWE OPTIONAL, iE-Extensions ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL, ...
}

FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },
  ...
}
PCH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-ReconfRqstFDD }}

PCH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-ParametersItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

PCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonTransportChannelID  CommonTransportChannelID,  OPTIONAL,
  pCH-Power                DL-Power,                     OPTIONAL,
  toAWS                     ToAWS,                        OPTIONAL,
  iE-Extensions             ProtocolExtensionContainer {{ PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs} },  OPTIONAL,
  ...                       ...
}

PICH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-ReconfRqstFDD }}

PICH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-ParametersItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PICH-ParametersItem-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

PICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,          OPTIONAL,
  pICH-Power                PICH-Power,                           OPTIONAL,
  iE-Extensions             ProtocolExtensionContainer {{ PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs} },  OPTIONAL,
  ...                       ...
}

MICH-Parameters-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,          OPTIONAL,
  mICH-Power                PICH-Power,                           OPTIONAL,
  iE-Extensions             ProtocolExtensionContainer {{ MICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs} },  OPTIONAL,
  ...                       ...
}

MICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },
  ...
}

PRACHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
  pRACH-ParametersList-CTCH-ReconfRqstFDD  PRACH-ParametersList-CTCH-ReconfRqstFDD,   OPTIONAL,
  aICH-ParametersList-CTCH-ReconfRqstFDD   AICH-ParametersList-CTCH-ReconfRqstFDD,    OPTIONAL,
  ...
}
PRACH-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersListIEs-CTCH-ReconfRqstFDD }}

PRACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PRACH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

PRACH-ParametersListIE-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersListIEs-CTCH-ReconfRqstFDD }}

PRACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },
}

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  rACH-SlotFormat RACH-SlotFormat,
  iE-Extensions ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
}

AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD

AICH-ParametersListIEs-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ AICH-ParametersListIEs-CTCH-ReconfRqstFDD }}

AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE AICH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}
AICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF AICH-ParametersItem-CTCH-ReconfRqstFDD

AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    aICH-Power AICH-Power OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...}

AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...}

-- ******************************************************
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST TDD
-- ******************************************************

CommonTransportChannelReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs ProtocolIE-Container {{CommonTransportChannelReconfigurationRequestTDD-IEs}},
    protocolExtensions ProtocolExtensionContainer {{CommonTransportChannelReconfigurationRequestTDD-Extensions}} OPTIONAL,
    ...}

CommonTransportChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory } |
    { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory } |
    { ID id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject TYPE Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD PRESENCE optional } |
    { ID id-PICH-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject TYPE PICH-Parameters-CTCH-ReconfRqstTDD PRESENCE optional } |
    { ID id-FACH-ParametersList-CTCH-ReconfRqstTDD CRITICALITY reject TYPE FACH-ParametersList-CTCH-ReconfRqstTDD PRESENCE optional } |
    { ID id-PCH-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject TYPE PCH-Parameters-CTCH-ReconfRqstTDD PRESENCE optional },
    ...}

CommonTransportChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject EXTENSION FPACH-LCR-Parameters-CTCH-ReconfRqstTDD PRESENCE optional } |
    -- Applicable to 1.28Mcps TDD only
    { ID id-MICH-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject EXTENSION MICH-Parameters-CTCH-ReconfRqstTDD PRESENCE optional } |
    { ID id-PLCCH-Parameters-CTCH-ReconfRqstTDD CRITICALITY ignore EXTENSION PLCCH-Parameters-CTCH-ReconfRqstTDD PRESENCE optional } |
    { ID id-S-CCPCH-768-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject EXTENSION Secondary-CCPCH-768-Parameters-CTCH-ReconfRqstTDD PRESENCE optional } |
    { ID id-PICH-768-Parameters-CTCH-ReconfRqstTDD CRITICALITY reject EXTENSION PICH-768-Parameters-CTCH-ReconfRqstTDD PRESENCE optional } |
    ...}
Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
  cCThrCH-ID  CCTrCH-ID,
  secondaryCCPCHList  Secondary-CCPCHList-CTCH-ReconfRqstTDD  OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer  {{ Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs} }  OPTIONAL,
  ...
}

Secondary-CCPCH-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD  CRITICALITY reject  EXTENSION Secondary-CCPCH-parameterExtendedList-CTCH-ReconfRqstTDD  PRESENCE optional }  -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
  { ID id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRqstTDD  CRITICALITY reject  EXTENSION Secondary-CCPCH-LCR-parameterExtendedList-CTCH-ReconfRqstTDD  PRESENCE optional },  -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
  ...
}


Secondary-CCPCHListIEs-CTCH-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD  CRITICALITY reject  TYPE Secondary-CCPCHItem-CTCH-ReconfRqstTDD  PRESENCE mandatory }  
}

Secondary-CCPCHListIE-CTCH-ReconfRqstTDD ::= SEQUENCE  (SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD

Secondary-CCPCHItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID  CommonPhysicalChannelID,
  sCCPCH-Power  DL-Power  OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer  {{ Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs} }  OPTIONAL,
  ...
}

Secondary-CCPCHItem-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Secondary-CCPCH-parameterExtendedList-CTCH-ReconfRqstTDD ::= SEQUENCE  (SIZE (1..maxNrOfSCCPCHsinExt)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD  -- Applicable to 3.84Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.

Secondary-CCPCH-LCR-parameterExtendedList-CTCH-ReconfRqstTDD ::= SEQUENCE  (SIZE (1..maxNrOfSCCPCHsLChinExt)) OF Secondary-CCPCHItem-CTCH-ReconfRqstTDD  -- Applicable to 1.28Mcps TDD only, used when more than maxNrOfSCCPCHs SCCPCHs are to be reconfigured.
PICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { }

FACH-ParametersList-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-ReconfRqstTDD

FACH-ParametersItem-CTCH-ReconfRqstTDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  toAWS ToAWS OPTIONAL,
  toAWE ToAWE OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

FACH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE { }

PCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE { }

PCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { }

FPACH-LCR-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE { }

MICH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE { }

ETS
MICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

PLCCH-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
  maxPowerPLCCH DL-Power,
  iE-Extensions ProtocolExtensionContainer {{ PLCCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ... 
}

PLCCH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

Secondary-CCPCH-768-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  secondaryCCPCH768List Secondary-CCPCH-768-List-CTCH-ReconfRqstTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ Secondary-CCPCH-768-CTCH-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ... 
}

Secondary-CCPCH-768-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

Secondary-CCPCH-768-List-CTCH-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSCCPCHs768)) OF Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD

Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID768 CommonPhysicalChannelID768,
  sCCPCH-Power DL-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ... 
}

Secondary-CCPCH-768-Item-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

PICH-768-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID768 CommonPhysicalChannelID768,
  pICH-Power PICH-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ PICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ... 
}

PICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

MICH-768-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
  ... 
}

MICH-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}
commonPhysicalChannelID768  CommonPhysicalChannelID768,
mICH-Power        PICH-Power OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { MICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs} } OPTIONAL,

MICH-768-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD ::= SEQUENCE {
  uPPCHPositionLCR  UPPCHPositionLCR OPTIONAL,
  uARFCN    UARFCN OPTIONAL,
  -- Mandatory for 1.28Mcps TDD when using multiple frequencies Corresponds to Nt [15]
  iE-Extensions ProtocolExtensionContainer { { UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

UPPCH-LCR-Parameters-CTCH-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *********************************************
-- -- COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE
-- *********************************************

CommonTransportChannelReconfigurationResponse ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{CommonTransportChannelReconfigurationResponse-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CommonTransportChannelReconfigurationResponse-Extensions}}  OPTIONAL,
  ...
}

CommonTransportChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CriticalityDiagnostics  CRITICALITY  ignore   TYPE CriticalityDiagnostics  PRESENCE optional},
  ...
}

CommonTransportChannelReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *********************************************
-- -- COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE
-- *********************************************

CommonTransportChannelReconfigurationFailure ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{CommonTransportChannelReconfigurationFailure-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CommonTransportChannelReconfigurationFailure-Extensions}}  OPTIONAL,
  ...
}
CommonTransportChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-Cause     CRITICALITY ignore TYPE Cause     PRESENCE mandatory }|
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
}

CommonTransportChannelReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- ******************************************
-- COMMON TRANSPORT CHANNEL DELETION REQUEST
-- ******************************************

CommonTransportChannelDeletionRequest ::= SEQUENCE {
  protocolIEs     ProtocolIE-Container  {{CommonTransportChannelDeletionRequest-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{CommonTransportChannelDeletionRequest-Extensions}}  OPTIONAL,
  ...
}

CommonTransportChannelDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID        CRITICALITY reject TYPE C-ID     PRESENCE mandatory },
  { ID id-CommonPhysicalChannelID CRITICALITY reject TYPE CommonPhysicalChannelID PRESENCE mandatory },
  { ID id-ConfigurationGenerationID  CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory },
  ...
}

CommonTransportChannelDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-CommonPhysicalChannelID768-CommonTrChDeletionReq CRITICALITY reject EXTENSION CommonPhysicalChannelID768 PRESENCE optional },
  ...
}

-- ******************************************
-- COMMON TRANSPORT CHANNEL DELETION RESPONSE
-- ******************************************

CommonTransportChannelDeletionResponse ::= SEQUENCE {
  protocolIEs     ProtocolIE-Container  {{CommonTransportChannelDeletionResponse-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{CommonTransportChannelDeletionResponse-Extensions}}  OPTIONAL,
  ...
}

CommonTransportChannelDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}
CommonTransportChannelDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {

}

-- *******************************************************
-- BLOCK RESOURCE REQUEST
-- *******************************************************

BlockResourceRequest ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{BlockResourceRequest-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{BlockResourceRequest-Extensions}}   OPTIONAL,
...


BlockResourceRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID       CRITICALITY reject  TYPE C-ID      PRESENCE mandatory }|
  { ID id-BlockingPriorityIndicator  CRITICALITY reject  TYPE BlockingPriorityIndicator PRESENCE mandatory }|
  { ID id-ShutdownTimer     CRITICALITY reject  TYPE ShutdownTimer    PRESENCE conditional },
  -- The IE shall be present if the Blocking Priority Indicator IE indicates "Normal Priority"--
...

}

BlockResourceRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {

}

-- *******************************************************
-- BLOCK RESOURCE RESPONSE
-- *******************************************************

BlockResourceResponse ::= SEQUENCE {
  protocolIEs     ProtocolIE-Container  {{BlockResourceResponse-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{BlockResourceResponse-Extensions}}  OPTIONAL,
...

}

BlockResourceResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CriticalityDiagnostics  CRITICALITY ignore  TYPE CriticalityDiagnostics  PRESENCE optional},
...

}

BlockResourceResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {

}

-- *******************************************************
-- BLOCK RESOURCE FAILURE
-- *******************************************************
BlockResourceFailure ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{BlockResourceFailure-IEs}},
  protocolExtensions ProtocolExtensionContainer {{BlockResourceFailure-Extensions}}  OPTIONAL,
  ...
}

BlockResourceFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory }|
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

BlockResourceFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...

-- ******************************************************
-- UNBLOCK RESOURCE INDICATION
-- ******************************************************

UnblockResourceIndication ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{UnblockResourceIndication-IEs}},
  protocolExtensions ProtocolExtensionContainer {{UnblockResourceIndication-Extensions}}  OPTIONAL,
  ...
}

UnblockResourceIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID CRITICALITY ignore TYPE C-ID PRESENCE mandatory },
  ...
}

UnblockResourceIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...

-- ******************************************************
-- AUDIT REQUIRED INDICATION
-- ******************************************************

AuditRequiredIndication ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{AuditRequiredIndication-IEs}},
  protocolExtensions ProtocolExtensionContainer {{AuditRequiredIndication-Extensions}}  OPTIONAL,
  ...
}

AuditRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
  ...
}
AuditRequiredIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- ***********************************************
-- AUDIT REQUEST
-- ***********************************************
AuditRequest ::= SEQUENCE {
    protocolIEs ProtocolIE-Container {{AuditRequest-IEs}},
    protocolExtensions ProtocolExtensionContainer {{AuditRequest-Extensions}}  OPTIONAL,
    ...
}
AuditRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Start-Of-Audit-Sequence-Indicator  CRITICALITY reject TYPE Start-Of-Audit-Sequence-Indicator  PRESENCE mandatory },
    ...
}
AuditRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- ***********************************************
-- AUDIT RESPONSE
-- ***********************************************
AuditResponse ::= SEQUENCE {
    protocolIEs ProtocolIE-Container {{AuditResponse-IEs}},
    protocolExtensions ProtocolExtensionContainer {{AuditResponse-Extensions}}  OPTIONAL,
    ...
}
AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-End-Of-Audit-Sequence-Indicator  CRITICALITY ignore TYPE End-Of-Audit-Sequence-Indicator  PRESENCE mandatory },
    { ID id-Cell-InformationList-AuditRsp   CRITICALITY ignore TYPE Cell-InformationList-AuditRsp  PRESENCE optional },
    { ID id-CCP-InformationList-AuditRsp    CRITICALITY ignore TYPE CCP-InformationList-AuditRsp   PRESENCE optional },
    { ID id-Local-Cell-InformationList-AuditRsp   CRITICALITY ignore TYPE Local-Cell-InformationList-AuditRsp  PRESENCE optional },
    { ID id-Local-Cell-Group-InformationList-AuditRsp  CRITICALITY ignore TYPE Local-Cell-Group-InformationList-AuditRsp  PRESENCE optional },
    { ID id-CriticalityDiagnostics    CRITICALITY ignore TYPE CriticalityDiagnostics    PRESENCE optional },
    ...
}
AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
{ ID id-Power-Local-Cell-Group-InformationList-AuditRsp CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList-AuditRsp PRESENCE optional },
...
}

Cell-InformationList-AuditRsp ::= SEQUENCE {SIZE (1..maxCellinNodeB)} OF ProtocolIE-Single-Container {{ Cell-InformationItemIR-AuditRsp}}

Cell-InformationItemIS-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-Cell-InformationItem-AuditRsp CRITICALITY ignore TYPE Cell-InformationItem-AuditRsp PRESENCE optional }
}

Cell-InformationItem-AuditRsp ::= SEQUENCE {c-ID C-ID,
configurationGenerationID ConfigurationGenerationID,
resourceOperationalState ResourceOperationalState,
availabilityStatus AvailabilityStatus,
local-Cell-ID Local-Cell-ID,
primary-SCH-Information P-SCH-Information-AuditRsp OPTIONAL,
secondary-SCH-Information S-SCH-Information-AuditRsp OPTIONAL,
primary-CFICH-Information P-CFICH-Information-AuditRsp OPTIONAL,
secondary-CFICH-InformationList S-CFICH-InformationList-AuditRsp OPTIONAL,
primary-CCPCH-Information P-CCPCH-Information-AuditRsp OPTIONAL,
primary-CPICH-Information P-CPICH-Information-AuditRsp OPTIONAL,
primary-CPICH-InformationList P-CPICH-InformationList-AuditRsp OPTIONAL,
primary-CCPCH-InformationList P-CCPCH-InformationList-AuditRsp OPTIONAL,
bCH-Information BCH-Information-AuditRsp OPTIONAL,
secondary-CCPCH-InformationList S-CCPCH-InformationList-AuditRsp OPTIONAL,
pCH-Information PCH-Information-AuditRsp OPTIONAL,
pICH-Information PICH-Information-AuditRsp OPTIONAL,
fACH-InformationList FACH-InformationList-AuditRsp OPTIONAL,
pRACH-InformationList PRACH-InformationList-AuditRsp OPTIONAL,
rRACH-InformationList RACH-InformationList-AuditRsp OPTIONAL,
aICH-InformationList aICH-InformationList-AuditRsp OPTIONAL,
notUsed1-pCPICH-Information NULL OPTIONAL,
notUsed2-pCPICH-Information NULL OPTIONAL,
notUsed3-aP-AICH-Information NULL OPTIONAL,
notUsed4-cDCA-ICH-Information NULL OPTIONAL,
sCH-Information SCH-Information-AuditRsp OPTIONAL,
IE-Extensions ProtocolExtensionContainer { { Cell-InformationItem-AuditRsp-ExtIEs} } OPTIONAL,
...
}

Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-PPACH-LCR-InformationList-AuditRsp CRITICALITY ignore EXTENSION PPACH-LCR-InformationList-AuditRsp PRESENCE optional }
-- Applicable to 1.28Mcps TDD only
{ ID id-DwPCH-LCR-InformationList-AuditRsp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information PRESENCE optional }
-- Applicable to 1.28Mcps TDD only
{ ID id-HSDSCH-Resources-Information-AuditRsp CRITICALITY ignore EXTENSION HS-DCH-Resources-Information-AuditRsp PRESENCE optional }
-- For 1.28Mcps TDD, this HS-DCH Resource Information is for the first Frequency repetition, HS-DCH Resource Information for Frequency repetitions 2 and on, should be defined in MultipleFreq-HS-DSCH-Resources-Information-AuditRsp.
{ ID id-MICH-Information-AuditRsp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information PRESENCE optional }
{ ID id-HS-DSCH-Resources-Information-AuditRsp CRITICALITY ignore EXTENSION HS-DSCH-Resources-Information-AuditRsp PRESENCE optional }
{ ID id-S-CCPCH-InformationListExt-AuditRsp CRITICALITY ignore EXTENSION S-CCPCH-InformationListExt-AuditRsp PRESENCE optional }
-- Applicable to 1.84Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the cell.
{ ID id-S-CPCH-LCR-InformationListExt-AuditRsp CRITICALITY ignore EXTENSION S-CPCH-LCR-InformationListExt-AuditRsp PRESENCE optional }|
-- Applicable to 1.28Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the cell.
{ ID id-E-DCH-Resources-Information-AuditRsp CRITICALITY ignore EXTENSION E-DCH-Resources-Information-AuditRsp PRESENCE optional }|
-- Applicable to 1.28Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the cell.
{ ID id-E-RUCCH-InformationList-AuditRsp CRITICALITY ignore EXTENSION E-RUCCH-InformationList-AuditRsp PRESENCE optional }|
-- For 1.28Mcps TDD, this E-DCH Resource Information is for the first Frequency repetition, E-DCH Resource Information for Frequency repetitions 2 and on, should be defined in MultipleFreq-E-DCH-Resources-InformationList-AuditRsp.
{ ID id-PLCH-InformationList-AuditRsp CRITICALITY ignore EXTENSION PLCH-InformationList-AuditRsp PRESENCE optional }|
{ ID id-P-CPCH-768-Information-AuditRsp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional }|
{ ID id-S-CPCH-768-InformationList-AuditRsp CRITICALITY ignore EXTENSION S-CPCH-768-InformationList-AuditRsp PRESENCE optional }|
{ ID id-PRACH-768-InformationList-AuditRsp CRITICALITY ignore EXTENSION PRACH-768-InformationList-AuditRsp PRESENCE optional }|
{ ID id-E-DCH-Resources-Information-AuditRsp CRITICALITY ignore EXTENSION E-DCH-Resources-Information-AuditRsp PRESENCE optional }|
{ ID id-PLCH-InformationList-AuditRsp CRITICALITY ignore EXTENSION PLCH-InformationList-AuditRsp PRESENCE optional }|
{ ID id-P-CPCH-768-Information-AuditRsp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional }|
{ ID id-S-CPCH-768-InformationList-AuditRsp CRITICALITY ignore EXTENSION S-CPCH-768-InformationList-AuditRsp PRESENCE optional }|
{ ID id-PRACH-768-InformationList-AuditRsp CRITICALITY ignore EXTENSION PRACH-768-InformationList-AuditRsp PRESENCE optional }|
{ ID id-E-RUCCH-InformationList-AuditRsp CRITICALITY ignore EXTENSION E-RUCCH-InformationList-AuditRsp PRESENCE optional }|
{ ID id-P-CPICH-768-Information-AuditRsp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional }|
{ ID id-PICH-768-Information-AuditRsp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional }|
{ ID id-PRACH-768-InformationList-AuditRsp CRITICALITY ignore EXTENSION PRACH-768-InformationList-AuditRsp PRESENCE optional }|
{ ID id-S-CPCH-768-InformationList-AuditRsp CRITICALITY ignore EXTENSION S-CPCH-768-InformationList-AuditRsp PRESENCE optional }|
{ ID id-E-RUCCH-InformationList-AuditRsp CRITICALITY ignore EXTENSION E-RUCCH-InformationList-AuditRsp PRESENCE optional }|
{ ID id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp CRITICALITY ignore EXTENSION Cell-Frequency-List-Information-LCR-MulFreqAuditRsp PRESENCE optional }|
-- Applicable to 1.28Mcps TDD when using multiple frequencies
{ ID id-UPPCH-LCR-InformationList-AuditRsp CRITICALITY ignore EXTENSION UPPCH-LCR-InformationList-AuditRsp PRESENCE optional }|
-- Applicable to 1.28Mcps TDD only
{ ID id-multipleFreq-HS-DSCH-Resources-InformationList-AuditRsp CRITICALITY ignore EXTENSION MultipleFreq-HS-DSCH-Resources-InformationListAuditRsp PRESENCE optional }|
-- Applicable to 1.28Mcps TDD when using multiple frequencies. This HS-DSCH Resource Information is for the 2nd and beyond frequencies.
{ ID id-MultipleFreq-E-DCH-Resources-InformationList-AuditRsp CRITICALITY ignore EXTENSION MultipleFreq-E-DCH-Resources-InformationListAuditRsp PRESENCE optional }|
-- Applicable to 1.28Mcps TDD when using multiple frequencies. This E-DCH Resource Information is for the 2nd and beyond frequencies.
...
S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-AuditRsp }}

S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    ID id-S-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory
}

P-CCPCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-AuditRsp }}

P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    ID id-P-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory
}

BCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ BCH-InformationIE-AuditRsp }}

BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    ID id-BCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory
}

S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}

S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    ID id-S-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory
}

PCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PCH-InformationIE-AuditRsp }}

PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    ID id-PCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory
}

PICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PICH-InformationIE-AuditRsp }}

PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    ID id-PICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory
}

FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-AuditRsp }}

FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    ID id-FACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory
}

PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-AuditRsp }}

PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    ID id-PRACH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory
}

RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-AuditRsp }}

RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    ID id-RACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory
}
AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-AuditRsp }}

AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ SCH-InformationIE-AuditRsp }}

SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

FPACH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-AuditRsp }}

FPACH-LCR-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-FPACH-LCR-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

HS-DSCH-Resources-Information-AuditRsp ::= SEQUENCE {
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-AuditRsp-ExtIEs }} OPTIONAL,
    ...
}

HS-DSCH-Resources-Information-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt CRITICALITY ignore EXTENSION UARFCN PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies.
    ...
}

S-CCPCH-InformationListExt-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExt)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}

S-CCPCH-LCR-InformationListExt-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExtLCR)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}

E-DCH-Resources-Information-AuditRsp ::= SEQUENCE {
    resourceOperationalState ResourceOperationalState,
    availabilityStatus AvailabilityStatus,
    iE-Extensions ProtocolExtensionContainer {{ E-DCH-Resources-Information-AuditRsp-ExtIEs }} OPTIONAL,
    ...
}

E-DCH-Resources-Information-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt CRITICALITY ignore EXTENSION UARFCN PRESENCE optional },
    -- Applicable to 1.28Mcps TDD when using multiple frequencies.
    ...
}

PLCCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPLCCHCell)) OF ProtocolIE-Single-Container {{ PLCCH-InformationItemIE-AuditRsp }}

PLCCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PLCCH-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }

ETSI
S-CCPCH-768-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell768)) OF ProtocolIE-Single-Container {
                    S-CCPCH-768-InformationItemIE-AuditRsp }

S-CCPCH-768-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
                    { ID id-S-CCPCH-768-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768 PRESENCE mandatory }
}

PRACH-768-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {
                    PRACH-768-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
                    { ID id-PRACH-768-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768 PRESENCE mandatory }
}

E-RUCCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {
                    E-RUCCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
                    { ID id-E-RUCCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

E-RUCCH-768-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {
                    E-RUCCH-768-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
                    { ID id-E-RUCCH-768-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information768 PRESENCE mandatory }
}

Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {
                    Cell-Frequency-List-InformationIE-LCR-MulFreq-AuditRsp NBAP-PROTOCOL-IES ::= {
                    { ID id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp CRITICALITY ignore TYPE Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp PRESENCE mandatory }
}

Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp ::= SEQUENCE {
                    uARFCN UARFCN,
                    resourceOperationalState ResourceOperationalState,
                    availabilityStatus AvailabilityStatus,
                    iE-Extensions ProtocolExtensionContainer {{ Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp-ExtIEs }} OPTIONAL,
                    ... }

Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                    ... }

UPPCH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {
                    UPPCH-LCR-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
                    { ID id-UPPCH-LCR-InformationItem-AuditRsp CRITICALITY ignore TYPE UPPCH-LCR-InformationItem-AuditRsp PRESENCE mandatory }

                    ... }
UPPCH-LCR-InformationItem-AuditRsp ::= SEQUENCE {
  uARFCN        UARFCN    OPTIONAL,
  uPPCHPositionLCR     UPPCHPositionLCR,
  resourceOperationalState   ResourceOperationalState,
  availabilityStatus     AvailabilityStatus,
  IE-Extensions ProtocolExtensionContainer {{ UPPCH-LCR-InformationItem-AuditRsp-ExtIEs }}  OPTIONAL,
  ...
}

UPPCH-LCR-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

  ...
}

MultipleFreq-HS-DSCH-Resources-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container {
  { MultipleFreq-HS-DSCH-Resources-InformationItem-AuditRsp }
}  --Includes the 2nd through the max number of frequencies information repetitions.

MultipleFreq-HS-DSCH-Resources-InformationItem-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-HSDSCH-Resources-Information-AuditRsp CRITICALITY ignore TYPE HS-DSCH-Resources-Information-AuditRsp  PRESENCE mandatory }
}

MultipleFreq-E-DCH-Resources-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container {
  { MultipleFreq-E-DCH-Resources-InformationItem-AuditRsp }
}  --Includes the 2nd through the max number of frequencies information repetitions.

MultipleFreq-E-DCH-Resources-InformationItem-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-E-DCH-Resources-Information-AuditRsp CRITICALITY ignore TYPE E-DCH-Resources-Information-AuditRsp  PRESENCE mandatory }
}

CCP-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {
  { CCP-InformationItemIE-AuditRsp }
}

CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CCP-InformationItem-AuditRsp CRITICALITY ignore TYPE CCP-InformationItem-AuditRsp  PRESENCE mandatory }
}

CCP-InformationItem-AuditRsp ::= SEQUENCE {
  communicationControlPortID   CommunicationControlPortID,
  resourceOperationalState   ResourceOperationalState,
  availabilityStatus     AvailabilityStatus,
  IE-Extensions ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }}  OPTIONAL,
  ...
}

CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

  ...
}

Local-Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {
  { Local-Cell-InformationItemIE-AuditRsp }
}

Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-InformationItem-AuditRsp CRITICALITY ignore TYPE Local-Cell-InformationItem-AuditRsp  PRESENCE mandatory}
Local-Cell-InformationItem-AuditRsp ::= SEQUENCE {
  local-Cell-ID        Local-Cell-ID,
  dl-or-global-capacityCredit    DL-or-Global-CapacityCredit,
  ul-capacityCredit    UL-CapacityCredit
  OPTIONAL,
  commonChannelsCapacityConsumptionLaw       CommonChannelsCapacityConsumptionLaw,
  dedicatedChannelsCapacityConsumptionLaw       DedicatedChannelsCapacityConsumptionLaw,
  maximumDL-PowerCapability     MaximumDL-PowerCapability
  OPTIONAL,
  minSpreadingFactor    MinSpreadingFactor
  OPTIONAL,
  minimumDL-PowerCapability    MinimumDL-PowerCapability
  OPTIONAL,
  local-Cell-Group-ID       Local-Cell-ID
  OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}}  OPTIONAL,
  ...
}

Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-ReferenceClockAvailability   CRITICALITY ignore EXTENSION ReferenceClockAvailability  PRESENCE optional }|
  { ID id-Power-Local-Cell-Group-ID   CRITICALITY ignore EXTENSION Local-Cell-ID   PRESENCE optional }|
  { ID id-HSDPA-Capability     CRITICALITY        EXTENSION HSDPA-Capability   PRESENCE optional }|
  { ID id-E-DCH-Capability         CRITICALITY ignore EXTENSION E-DCH-Capability     PRESENCE optional }|
  { ID id-E-DCH-TTI2ms-Capability   CRITICALITY ignore EXTENSION E-DCH-TTI2ms-Capability PRESENCE conditional }|
  -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
  { ID id-E-DCH-SF-Capability       CRITICALITY ignore EXTENSION E-DCH-SF-Capability     PRESENCE conditional }|
  -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
  { ID id-E-DCH-HARQ-Combining-Capability   CRITICALITY ignore EXTENSION E-DCH-HARQ-Combining-Capability PRESENCE conditional }|
  -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
  { ID id-E-DCH-CapacityConsumptionLaw CRITICALITY        EXTENSION E-DCH-CapacityConsumptionLaw     PRESENCE optional }|
  { ID id-F-CPCH-Capability    CRITICALITY ignore EXTENSION F-CPCH-Capability     PRESENCE optional }|
  { ID id-E-DCH-MACdPDU-SizeCapability CRITICALITY          EXTENSION Enhanced-FACH-Capability     PRESENCE optional }|
  -- The IE shall be present if Enhanced FACH Capability IE is set to 'Enhanced FACH Capable'.
  { ID id-ContinuousPacketConnectivityHS-SCCH-less-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityNS-SCCH-less-Capability PRESENCE optional }|
  { ID id-MIMO-Capability         CRITICALITY       EXTENSION MIMO-Capability     PRESENCE optional }|
  { ID id-SixtyfourQAM-DL-Capability CRITICALITY ignore EXTENSION SixtyfourQAM-DL-Capability   PRESENCE optional }|
  { ID id-MBMS-Capability        CRITICALITY        EXTENSION MBMS-Capability     PRESENCE optional }|
  { ID id-Enhanced-PCH-Capability  CRITICALITY ignore EXTENSION Enhanced-PCH-Capability     PRESENCE conditional }|
  -- The IE shall be present if Enhanced PCH Capability IE is set to 'Enhanced PCH Capable'.
  { ID id-SixteenQAM-UL-Capability CRITICALITY       EXTENSION SixteenQAM-UL-Capability     PRESENCE optional }|
  { ID id-HSDSCH-MACdPDU-SizeCapability CRITICALITY ignore EXTENSION HSDSCH-MACdPDU-SizeCapability   PRESENCE optional }|
  { ID id-MBSFN-Only-Node-Capability CRITICALITY        EXTENSION MBSFN-Only-Node-Capability     PRESENCE optional }|
  { ID id-F-CPCH-SlotFormatCapability CRITICALITY        EXTENSION F-CPCH-SlotFormatCapability     PRESENCE optional }|
  { ID id-E-DCH-MACdPDU-SizeCapability CRITICALITY ignore EXTENSION E-DCH-MACdPDU-SizeCapability     PRESENCE optional }|
  { ID id-Common-EDCH-Capability CRITICALITY ignore EXTENSION Common-EDCH-Capability     PRESENCE optional }|
  { ID id-E-DCH-TDD-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw     PRESENCE optional }|
  { ID id-ContinuousPacketConnectivityDTX-DRX-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityDTX-DRX-Capability PRESENCE optional }|
  { ID id-MAX-UE-DTX-Cycle CRITICALITY ignore EXTENSION Max-UE-DTX-Cycle     PRESENCE conditional }|
  -- The IE shall be present if Continuous Packet Connectivity DTx-DRx Capability IE is present and set to 'Continuous Packet Connectivity DTX-DRx Capable'.
  { ID id-ContinuousPacketConnectivityNS-SCCH-less-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityNS-SCCH-less-Capability PRESENCE optional }|
  { ID id-MIMO-Capability         CRITICALITY       EXTENSION MIMO-Capability     PRESENCE optional }|
  { ID id-SixtyfourQAM-DL-Capability CRITICALITY ignore EXTENSION SixtyfourQAM-DL-Capability   PRESENCE optional }|
  { ID id-MBMS-Capability        CRITICALITY        EXTENSION MBMS-Capability     PRESENCE optional }|
  { ID id-Enhanced-PCH-Capability  CRITICALITY ignore EXTENSION Enhanced-PCH-Capability     PRESENCE conditional }|
  -- The IE shall be present if Enhanced PCH Capability IE is set to 'Enhanced PCH Capable'.
  { ID id-SixteenQAM-UL-Capability CRITICALITY       EXTENSION SixteenQAM-UL-Capability     PRESENCE optional }|
  { ID id-HSDSCH-MACdPDU-SizeCapability CRITICALITY ignore EXTENSION HSDSCH-MACdPDU-SizeCapability   PRESENCE optional }|
  { ID id-MBSFN-Only-Node-Capability CRITICALITY        EXTENSION MBSFN-Only-Node-Capability     PRESENCE optional }|
  { ID id-F-CPCH-SlotFormatCapability CRITICALITY        EXTENSION F-CPCH-SlotFormatCapability     PRESENCE optional }|
  { ID id-E-DCH-MACdPDU-SizeCapability CRITICALITY ignore EXTENSION E-DCH-MACdPDU-SizeCapability     PRESENCE optional }|
  { ID id-Common-EDCH-Capability CRITICALITY ignore EXTENSION Common-EDCH-Capability     PRESENCE optional }|
  { ID id-E-DCH-TDD-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw     PRESENCE optional }|
  { ID id-ContinuousPacketConnectivityDTX-DRX-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityDTX-DRX-Capability PRESENCE optional }|
  { ID id-MAX-UE-DTX-Cycle CRITICALITY ignore EXTENSION Max-UE-DTX-Cycle     PRESENCE conditional }|
  -- The IE shall be present if Continuous Packet Connectivity DTx-DRx Capable.
{ ID id-E-AI-Capability CRITICALITY ignore EXTENSION E-AI-Capability PRESENCE optional } |
-- The IE shall be present if Common E-DCH Capability IE is present and set to 'Common E-DCH Capable'.
{ ID id-Enhanced-UE-DRX-Capability CRITICALITY ignore EXTENSION Enhanced-UE-DRX-Capability PRESENCE optional } |
{ ID id-Enhanced-UE-DRX-CapabilityLCR CRITICALITY ignore EXTENSION Enhanced-UE-DRX-Capability LC PRESENCE optional } |
{ ID id-EPDCCH-Power-Boosting-Capability CRITICALITY ignore EXTENSION E-PDCCH-Power-Boosting-Capability PRESENCE optional } |
{ ID id-SixtyfourQAM-DL-MIMO-Combined-Capability CRITICALITY ignore EXTENSION SixtyfourQAM- DL-MIMO-Combined-Capability PRESENCE optional } |
{ ID id-Multi-Cell-Capability-Info CRITICALITY ignore EXTENSION Multi-Cell-Capability-Info PRESENCE optional } |
{ ID id-E-DPCCH-Power-Boosting-Capability CRITICALITY ignore EXTENSION E-DPCCH-Power-Boosting-Capability PRESENCE optional } |
{ ID id-SixtyfourQAM-DL-MIMO-Combined-Capability CRITICALITY ignore EXTENSION SixtyfourQAM-DL-MIMO-Combined-Capability PRESENCE optional } |
{ ID id-Multi-Cell-Capability-Info CRITICALITY ignore EXTENSION Multi-Cell-Capability-Info PRESENCE optional } |
{ ID id-ContinuousPacketConnectivity-DRX-CapabilityLCR CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-CapabilityLCR PRESENCE optional } |
{ ID id-Common-E-DCH-HSDPCCH-Capability CRITICALITY ignore EXTENSION Common-E-DCH-HSDPCCH-Capability PRESENCE optional } |
-- The IE shall be present if Common E-DCH Capability IE is present and set to 'Common E-DCH Capable'.
{ ID id-MIMO-Power-Offset-For-S-CPICH-Capability CRITICALITY ignore EXTENSION MIMO-Power-Offset-For-S-CPICH-Capability PRESENCE optional } |
{ ID id-TxDiversityOnDLControlChannelsByMIMOUE-Capability CRITICALITY ignore EXTENSION TxDiversityOnDLControlChannelsByMIMOUCapability PRESENCE optional } |
{ ID id-Single-Stream-MIMO-Capability CRITICALITY ignore EXTENSION Single-Stream-MIMO-Capability PRESENCE optional } |
{ ID id-CellPortion-CapabilityLCR CRITICALITY ignore EXTENSION CellPortion-CapabilityLCR PRESENCE optional } |
{ ID id-Capability-Container CRITICALITY ignore EXTENSION Cell-Capability-Container PRESENCE optional } |
{ ID id-Cell-Capability-Container CRITICALITY ignore EXTENSION Cell-Capability-Container LC PRESENCE optional } |
{ ID id-Adaptive-Special-Burst-Power-CapabilityLCR CRITICALITY ignore EXTENSION Adaptive-Special-Burst-Power-CapabilityLCR PRESENCE optional },
...

Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellInNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-InformationItem-AuditRsp }}

Local-Cell-Group-InformationItemAuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-Group-InformationItem-AuditRsp CRITICALITY ignore TYPE Local-Cell-Group-InformationItem-AuditRsp PRESENCE mandatory}
}

Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {
  local-Cell-Group-ID Local-Cell-ID,
  dl-or-global-capacityCredit DL-or-Global-CapacityCredit,
  ul-capacityCredit UL-CapacityCredit OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
  iE-Extensions ProtocolExtensionContainer {{ Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}}
}

Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-DCH-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-CapacityConsumptionLaw PRESENCE optional },
  { ID id-E-DCH-TDD-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw PRESENCE optional },
  ...
}

Power-Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellInNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-Group-InformationItemAuditRsp }}
Power-Local-Cell-Group-InformationItem-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-Power-Local-Cell-Group-InformationItem-AuditRsp
        CRITICALITY ignore TYPE Power-Local-Cell-Group-
        InformationItem-AuditRsp PRESENCE mandatory }
}

Power-Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {
    power-Local-Cell-Group-ID     Local-Cell-ID,
    maximumDL-PowerCapability     MaximumDL-PowerCapability,
    ie-Extensions        ProtocolExtensionContainer {{ Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}}
    OPTIONAL,
    ...
}

Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *******************************************************
-- AUDIT FAILURE
-- *******************************************************
AuditFailure ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{AuditFailure-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{AuditFailure-Extensions}}  OPTIONAL,
    ...
}

AuditFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-Cause       CRITICALITY ignore   TYPE Cause      PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics   CRITICALITY ignore   TYPE CriticalityDiagnostics  PRESENCE optional }
},

AuditFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *******************************************************
-- COMMON MEASUREMENT INITIATION REQUEST
-- *******************************************************
CommonMeasurementInitiationRequest ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{CommonMeasurementInitiationRequest-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CommonMeasurementInitiationRequest-Extensions}}
    OPTIONAL,
    ...
}
CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID       CRITICALITY reject TYPE MeasurementID    PRESENCE mandatory }|
  { ID id-CommonMeasurementObjectType-CM-Rqst  CRITICALITY reject TYPE CommonMeasurementObjectType-CM-Rqst  PRESENCE mandatory }|
  { ID id-CommonMeasurementType     CRITICALITY reject TYPE CommonMeasurementType  PRESENCE mandatory }|
  { ID id-MeasurementFilterCoefficient   CRITICALITY reject TYPE MeasurementFilterCoefficient  PRESENCE optional }|
  { ID id-ReportCharacteristics     CRITICALITY reject TYPE ReportCharacteristics  PRESENCE mandatory }|
  { ID id-SFNReportingIndicator     CRITICALITY reject TYPE FNReportingIndicator  PRESENCE mandatory }|
  { ID id-SFN          CRITICALITY reject TYPE SFN      PRESENCE optional },
  ...
}

CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-CommonMeasurementAccuracy      CRITICALITY reject EXTENSION CommonMeasurementAccuracy  PRESENCE optional}|}
  { ID id-MeasurementRecoveryBehavior      CRITICALITY ignore EXTENSION MeasurementRecoveryBehavior  PRESENCE optional }|
  { ID id-RTWP-ReportingIndicator        CRITICALITY reject EXTENSION RTWP-ReportingIndicator   PRESENCE optional }|
  { ID id-RTWP-CellPortion-ReportingIndicator    CRITICALITY reject EXTENSION RTWP-CellPortion-ReportingIndicator   PRESENCE optional }|
  { ID id-Reference-ReceivedTotalWideBandPowerReporting   CRITICALITY ignore EXTENSION Reference-ReceivedTotalWideBandPowerReporting   PRESENCE optional }|
  { ID id-GANSS-Time-ID          CRITICALITY ignore EXTENSION GANSS-Time-ID   PRESENCE optional },
  ...
}

CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
  cell       Cell-CM-Rqst,
  rACH       RACH-CM-Rqst,
  notUsed-cPCH     NULL,
  ...

  extension-CommonMeasurementObjectType-CM-Rqst  Extension-CommonMeasurementObjectType-CM-Rqst
}


Extension-CommonMeasurementObjectType-CM-RqstIE NBAP-PROTOCOL-IES ::= {
  { ID id-Power-Local-Cell-Group-choice-CM-Rqst CRITICALITY reject TYPE PowerLocalCellGroup-CM-Rqst PRESENCE mandatory }|
  { ID id-ERACH-CM-Rqst       CRITICALITY reject TYPE ERACH-CM-Rqst   PRESENCE mandatory } -- FDD only
}

ERACH-CM-Rqst ::= SEQUENCE {
  c-ID       C-ID,
  iE-Extensions     ProtocolExtensionContainer { { ERACHItem-CM-Rqst-ExtIEs} } OPTIONAL,
  ...
}

ERACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Cell-CM-Rqst ::= SEQUENCE {...}
c-ID C-ID,  
timeSlot TimeSlot OPTIONAL, -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only  
iE-Extensions ProtocolExtensionContainer { {CellItem-CM-Rqst-ExtIEs} } OPTIONAL,  

CellItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
{ ID id-TimeSlotLCR-CM-Rqst CRITICALITY reject EXTENSION TimeSlotLCR PRESENCE optional }|  
-- Applicable to 1.28Mcps TDD only  
{ID id-NeighbouringCellMeasurementInformation CRITICALITY ignore EXTENSION NeighbouringCellMeasurementInformation PRESENCE optional }|  
{ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional }|  
-- Mandatory for 1.28Mcps TDD when using multiple frequencies and the requested common measurement type is the one except for "HS-DSCH Required Power* or "HS-DSCH Provided Bit Rate*  
{ID id-UPPCHPositionLCR CRITICALITY reject EXTENSION UPPCHPositionLCR PRESENCE optional }|  
-- Applicable to 1.28Mcps TDD only  
{ID id-AdditionalTimeSlotListLCR CRITICALITY ignore EXTENSION AdditionalTimeSlotListLCR PRESENCE optional },  
-- Applicable to 1.28Mcps TDD only  

RACH-CM-Rqst ::= SEQUENCE {  
c-ID C-ID,  
commonTransportChannelID CommonTransportChannelID,  
iE-Extensions ProtocolExtensionContainer { {RACHItem-CM-Rqst-ExtIEs} } OPTIONAL,  

RACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  

PowerLocalCellGroup-CM-Rqst ::= SEQUENCE {  
powerLocalCellGroupID Local-Cell-ID,  
iE-Extensions ProtocolExtensionContainer { {PowerLocalCellGroup-CM-Rqst-ExtIEs} } OPTIONAL,  

PowerLocalCellGroup-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  

-- *****************************************************  
-- COMMON MEASUREMENT INITIATION RESPONSE  
-- *****************************************************  

CommonMeasurementInitiationResponse ::= SEQUENCE {  
protocolIEs ProtocolIE-Container { {CommonMeasurementInitiationResponse-IEs} },  
protocolExtensions ProtocolExtensionContainer { {CommonMeasurementInitiationResponse-Extensions} } OPTIONAL,  

CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {  

ETS
{ ID id-MeasurementID   CRITICALITY ignore  TYPE MeasurementID   PRESENCE mandatory 
|  { ID id-CommonMeasurementObjectType-CM-Rsp CRITICALITY ignore  TYPE CommonMeasurementObjectType-CM-Rsp PRESENCE optional
|  { ID id-SFN CRITICALITY ignore  TYPE SFN   PRESENCE optional
|  { ID id-CriticalityDiagnostics CRITICALITY ignore  TYPE CriticalityDiagnostics PRESENCE optional
},...

CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-CommonMeasurementAccuracy CRITICALITY ignore  EXTENSION CommonMeasurementAccuracy PRESENCE optional }
  { ID id-MeasurementRecoverySupportIndicator CRITICALITY ignore  EXTENSION MeasurementRecoverySupportIndicator PRESENCE optional }
  { ID id-Reference-ReceivedTotalWideBandPowerSupportIndicator CRITICALITY ignore  EXTENSION Reference-ReceivedTotalWideBandPowerSupportIndicator PRESENCE optional }
  { ID id-Reference-ReceivedTotalWideBandPower CRITICALITY ignore  EXTENSION Reference-ReceivedTotalWideBandPower PRESENCE optional },...

CommonMeasurementObjectType-CM-Rsp ::= CHOICE {
  cell Cell-CM-Rsp,
  rACH RACH-CM-Rsp,
  notUsed-cPCH NULL,
  ..., extension-CommonMeasurementObjectType-CM-Rsp Extension-CommonMeasurementObjectType-CM-Rsp
}

Extension-CommonMeasurementObjectType-CM-Rsp ::= ProtocolIE-Single-Container {
  Extension-CommonMeasurementObjectType-CM-RspIE }

Extension-CommonMeasurementObjectType-CM-RspIE NBAP-PROTOCOL-IES ::= {
  { ID id-Power-Local-Cell-Group-choice-CM-Rsp CRITICALITY ignore  TYPE PowerLocalCellGroup-CM-Rsp PRESENCE mandatory }|
  { ID id-ERACH-CM-Rsp CRITICALITY ignore  TYPE ERACH-CM-Rsp PRESENCE mandatory }-- FDD only
}

ERACH-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue CommonMeasurementValue,  
  iE-Extensions ProtocolExtensionContainer { { ERACHItem-CM-Rsp-ExtIEs} } OPTIONAL, 
  ...
}

ERACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

Cell-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue CommonMeasurementValue,  
  iE-Extensions ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs} } OPTIONAL, 
  ...
}
CellItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-AdditionalMeasurementValueList    CRITICALITY ignore    EXTENSION AdditionalMeasurementValueList    PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    {ID id-TimeSlotMeasurementValueListLCR CRITICALITY ignore    EXTENSION TimeSlotMeasurementValueListLCR    PRESENCE optional },
    -- Applicable to 1.28Mcps TDD, this IE is for the measurement value from the Primary frequency
    ...
}

RACH-CM-Rsp ::= SEQUENCE {
    commonMeasurementValue   CommonMeasurementValue,
    iE-Extensions     ProtocolExtensionContainer  { { RACHItem-CM-Rsp-ExtIEs} }  OPTIONAL,
    ...
}

RACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PowerLocalCellGroup-CM-Rsp ::= SEQUENCE {
    commonMeasurementValue   CommonMeasurementValue,
    iE-Extensions     ProtocolExtensionContainer  { { PowerLocalCellGroup-CM-Rsp-ExtIEs} }  OPTIONAL,
    ...
}

PowerLocalCellGroup-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- **************************************************************
-- COMMON MEASUREMENT INITIATION FAILURE
-- **************************************************************

CommonMeasurementInitiationFailure ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{CommonMeasurementInitiationFailure-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CommonMeasurementInitiationFailure-Extensions}}  OPTIONAL,
    ...
}

CommonMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID    CRITICALITY ignore    TYPE MeasurementID    PRESENCE mandatory }|
    { ID id-Cause      CRITICALITY ignore    TYPE Cause      PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics  CRITICALITY ignore    TYPE CriticalityDiagnostics    PRESENCE optional },
    ...
}

CommonMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- ********************************************************************
---
-- COMMON MEASUREMENT REPORT
--
--- ******************************************

CommonMeasurementReport ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{CommonMeasurementReport-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CommonMeasurementReport-Extensions}}  OPTIONAL,
  ...
}

CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID          CRITICALITY ignore TYPE MeasurementID    PRESENCE mandatory }|
  { ID id-CommonMeasurementObjectType-CM-Rprt  CRITICALITY ignore TYPE CommonMeasurementObjectType-CM-Rprt  PRESENCE mandatory }|
  { ID id-SFN                    CRITICALITY ignore TYPE SFN      PRESENCE optional  },
  ...
}

CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MeasurementRecoveryReportingIndicator CRITICALITY ignore EXTENSION MeasurementRecoveryReportingIndicator  PRESENCE optional  }||
  { ID id-Reference-ReceivedTotalWideBandPower CRITICALITY ignore EXTENSION Reference-ReceivedTotalWideBandPower  PRESENCE optional  },
  ...
}

CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
  cell            Cell-CM-Rprt,
  rACH            RACH-CM-Rprt,
  notUsed-cPCH          NULL,
  ...
  extension-CommonMeasurementObjectType-CM-Rprt  Extension-CommonMeasurementObjectType-CM-Rprt
}


Extension-CommonMeasurementObjectType-CM-RprtIE NBAP-PROTOCOL-IEBS ::= {
  { ID id-Power-Local-Cell-Group-choice-CM-Rprt CRITICALITY ignore TYPE PowerLocalCellGroup-CM-Rprt PRESENCE mandatory }|
  { ID id-ERACH-CM-Rprt       CRITICALITY ignore TYPE ERACH-CM-Rprt  PRESENCE mandatory },
  ...
}

ERACH-CM-Rprt ::= SEQUENCE {
  commonMeasurementValueInformation CommonMeasurementValueInformation,
  iE-Extensions ProtocolExtensionContainer {{ ERACHItem-CM-Rprt-ExtIEs }} OPTIONAL,
  ...
}

ERACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
Cell-CM-Rprt ::= SEQUENCE {
  commonMeasurementValueInformation  CommonMeasurementValueInformation,
  iE-Extensions  ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }} OPTIONAL,
  ...
}

CellItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-C-ID    CRITICALITY ignore   EXTENSION C-ID    PRESENCE optional}|
  {ID id-AdditionalMeasurementValueList  CRITICALITY ignore   EXTENSION AdditionalMeasurementValueList  PRESENCE optional}|
  -- Applicable to 1.28Mcps TDD only
  {ID id-TimeSlotMeasurementValueListLCR CRITICALITY ignore   EXTENSION TimeSlotMeasurementValueListLCR  PRESENCE optional },
  -- Applicable to 1.28Mcps TDD, this IE is for the measurement value from the Primary frequency
  ...
}

RACH-CM-Rprt ::= SEQUENCE {
  commonMeasurementValueInformation  CommonMeasurementValueInformation,
  iE-Extensions  ProtocolExtensionContainer {{ RACHItem-CM-Rprt-ExtIEs }} OPTIONAL,
  ...
}

RACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-C-ID   CRITICALITY ignore   EXTENSION C-ID    PRESENCE optional},
  ...
}

PowerLocalCellGroup-CM-Rprt ::= SEQUENCE {
  commonMeasurementValueInformation  CommonMeasurementValueInformation,
  iE-Extensions  ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rprt-ExtIEs}} OPTIONAL,
  ...
}

PowerLocalCellGroup-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *********************************************
-- COMMON MEASUREMENT TERMINATION REQUEST
-- *********************************************

CommonMeasurementTerminationRequest ::= SEQUENCE {
  protocolIEs  ProtocolIE-Container {{CommonMeasurementTerminationRequest-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CommonMeasurementTerminationRequest-Extensions}} OPTIONAL,
  ...
}

CommonMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID  CRITICALITY ignore   TYPE MeasurementID  PRESENCE mandatory },
  ...
}
CommonMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {

} ...

-- ******************************************************************************
-- COMMON MEASUREMENT FAILURE INDICATION
-- ******************************************************************************

CommonMeasurementFailureIndication ::= SEQUENCE {
  protocolIEs     ProtocolIE-Container  {{CommonMeasurementFailureIndication-IEs}},
  protocolExtensions   ProtocolExtensionContainer {{CommonMeasurementFailureIndication-Extensions}} OPTIONAL,
...

CommonMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID   CRITICALITY ignore   TYPE MeasurementID   PRESENCE mandatory }|
  { ID id-Cause     CRITICALITY ignore   TYPE Cause     PRESENCE mandatory },
...

CommonMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {

} ...

-- ******************************************************************************
-- CELL SETUP REQUEST FDD
-- ******************************************************************************

CellSetupRequestFDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{CellSetupRequestFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CellSetupRequestFDD-Extensions}} OPTIONAL,
...

CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-ID          CRITICALITY reject TYPE Local-Cell-ID       PRESENCE mandatory }|
  { ID id-C-ID            CRITICALITY reject TYPE C-ID          PRESENCE mandatory }|
  { ID id-ConfigurationGenerationID       CRITICALITY reject TYPE ConfigurationGenerationID       PRESENCE mandatory }|
  { ID id-T-Cell            CRITICALITY reject TYPE T-Cell          PRESENCE mandatory }|
  { ID id-UARFCNforNu           CRITICALITY reject TYPE UARFCN          PRESENCE mandatory }|
  { ID id-UARFCNforNd           CRITICALITY reject TYPE UARFCN          PRESENCE mandatory }|
  { ID id-MaximumTransmissionPower       CRITICALITY reject TYPE MaximumTransmissionPower       PRESENCE mandatory }|


{ ID id-Closed-Loop-Timing-Adjustment-Mode CRITICALITY reject TYPE ClosedloopTimingAdjustmentMode PRESENCE optional } ||
{ ID id-PrimaryScramblingCode CRITICALITY reject TYPE PrimaryScramblingCode PRESENCE mandatory } ||
{ ID id-Synchronisation-Configuration-Cell-SetupRqst CRITICALITY reject TYPE Synchronisation-Configuration-Cell-SetupRqst PRESENCE mandatory } ||
{ ID id-DL-TPC-Pattern01Count CRITICALITY reject TYPE DL-TPC-Pattern01Count PRESENCE mandatory } ||
{ ID id-PrimarySCH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE PrimarySCH-Information-Cell-SetupRqstFDD PRESENCE mandatory } ||
{ ID id-SecondarySCH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE SecondarySCH-Information-Cell-SetupRqstFDD PRESENCE mandatory } ||
{ ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-SetupRqstFDD PRESENCE mandatory } ||
{ ID id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-SetupRqstFDD PRESENCE optional } ||
{ ID id-PrimaryCCPCH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-SetupRqstFDD PRESENCE mandatory } ||
{ ID id-Limited-power-increase-information-Cell-SetupRqstFDD CRITICALITY reject TYPE Limited-power-increase-information-Cell-SetupRqstFDD PRESENCE mandatory }, ...

CellSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-IPDLParameter-Information-Cell-SetupRqstFDD CRITICALITY reject EXTENSION IPDLPParameter-Information-Cell-SetupRqstFDD PRESENCE optional } ||
{ ID id-CellPortion-InformationList-Cell-SetupRqstFDD CRITICALITY reject EXTENSION CellPortion-InformationList-Cell-SetupRqstFDD PRESENCE optional } ||
{ ID id-MIMO-PilotConfiguration CRITICALITY reject EXTENSION MIMO-PilotConfiguration PRESENCE optional }, ...

Synchronisation-Configuration-Cell-SetupRqst ::= SEQUENCE {
  n-INSYNC-IND N-INSYNC-IND,
  n-OUTSYNC-IND N-OUTSYNC-IND,
  t-RLFAILURE T-RLFAILURE,
  iE-Extensions ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-SetupRqst-ExtIEs} } OPTIONAL,
  ... }  

Synchronisation-Configuration-Cell-SetupRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }  

PrimarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  primarySCH-Power DL-Power,
  tSTD-Indicator TSTD-Indicator,
  iE-Extensions ProtocolExtensionContainer { { PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs} } OPTIONAL,
PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SecondarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  secondarySCH-Power DL-Power,
  tSTD-Indicator TSTD-Indicator,
  iE-Extensions ProtocolExtensionContainer {
    SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs } OPTIONAL,
  ...
}

SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PrimaryCPICH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  primaryCPICH-Power PrimaryCPICH-Power,
  transmitDiversityIndicator TransmitDiversityIndicator,
  iE-Extensions ProtocolExtensionContainer {
    PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs } OPTIONAL,
  ...
}

PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SecondaryCPICH-InformationList-Cell-SetupRqstFDD ::= SEQUENCE {
  SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD (SIZE (1..maxSCPICHCell))
}

SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
  ID id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD CRITICALITY reject TYPE SecondaryCPICH-InformationItem-Cell-SetupRqstFDD
  PRESENCE mandatory,
}

SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  dl-ScramblingCode DL-ScramblingCode,
  fDD-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  secondaryCPICH-Power DL-Power,
  transmitDiversityIndicator TransmitDiversityIndicator,
  iE-Extensions ProtocolExtensionContainer {
    SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD-ExtIEs } Optionally,
  ...
}

SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PrimaryCCPCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  bCH-information BCH-Information-Cell-SetupRqstFDD,
... ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs} } OPTIONAL,
}
PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
BCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  bCH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { BCH-Information-Cell-SetupRqstFDD-ExtIEs} } OPTIONAL,
... ProtocolExtensionContainer { { BCH-Information-Cell-SetupRqstFDD-ExtIEs} } OPTIONAL,
}
BCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
  powerRaiseLimit PowerRaiseLimit,
  dLPowerAveragingWindowSize DLPowerAveragingWindowSize,
  iE-Extensions ProtocolExtensionContainer { { Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs} }
  OPTIONAL,
...
}
Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
IPDLParameter-Information-Cell-SetupRqstFDD ::= SEQUENCE {
  iPD-L-FDD-Parameters IPDL-FDD-Parameters,
  iPD-L-Indicator IPDL-Indicator,
  iE-Extensions ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs} }
  OPTIONAL,
...
}
IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
CellPortion-InformationList-Cell-SetupRqstFDD ::= SEQUENCE {SIZE (1..maxNrOfCellPortionsPerCell)} OF ProtocolIE-Single-Container{{ CellPortion-InformationItemIE-Cell-SetupRqstFDD }}
CellPortion-InformationItemIE-Cell-SetupRqstFDD NBAP-PROTOCOL-IRS ::= {
  { ID id-CellPortion-InformationItem-Cell-SetupRqstFDD CRITICALITY reject TYPE CellPortion-InformationItemIE-Cell-SetupRqstFDD PRESENCE mandatory }
}
CellPortion-InformationItemIE-Cell-SetupRqstFDD ::= SEQUENCE {
  cellPortionID CellPortionID,
CellPortion-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

-- ******************************************************************************
-- CELL SETUP REQUEST TDD
-- ******************************************************************************

CellSetupRequestTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{CellSetupRequestTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CellSetupRequestTDD-Extensions}} OPTIONAL,
  ... 
}

CellSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-ID CRITICALITY reject TYPE Local-Cell-ID
    PRESENCE mandatory }|
  { ID id-C-ID CRITICALITY reject TYPE C-ID
    PRESENCE mandatory }|
  { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID
    PRESENCE mandatory }|
  { ID id-UARFCNforNt CRITICALITY reject TYPE UARFCN
    PRESENCE mandatory } -- For 1.28Mcps TDD, if multiple frequencies exist within the cell indicated by C-ID, this IE indicates the frequency of Primary frequency
  { ID id-CellParameterID CRITICALITY reject TYPE CellParameterID
    PRESENCE mandatory }|
  -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE indicate the Preamble code used in the Special Time Slot [19]
  { ID id-MaximumTransmissionPower CRITICALITY reject TYPE MaximumTransmissionPower
    PRESENCE mandatory }|
  { ID id-TransmissionDiversityApplied CRITICALITY reject TYPE TransmissionDiversityApplied
    PRESENCE mandatory }|
  { ID id-SyncCase CRITICALITY reject TYPE SyncCase
    PRESENCE mandatory }|
  { ID id-Synchronisation-Configuration-Cell-SetupRqst CRITICALITY reject TYPE Synchronisation-Configuration-Cell-SetupRqst
    PRESENCE mandatory }|
  { ID id-DPCHConstant CRITICALITY reject TYPE ConstantValue
    PRESENCE mandatory } -- This IE shall be ignored by the Node B.
  { ID id-PUSCHConstant CRITICALITY reject TYPE ConstantValue
    PRESENCE mandatory } -- This IE shall be ignored by the Node B.
  { ID id-PRACHConstant CRITICALITY reject TYPE ConstantValue
    PRESENCE mandatory } -- This IE shall be ignored by the Node B.
  { ID id-TimingAdvanceApplied CRITICALITY reject TYPE TimingAdvanceApplied
    PRESENCE mandatory }|
  { ID id-SCH-Information-Cell-SetupRqstTDD CRITICALITY reject TYPE SCH-Information-Cell-SetupRqstTDD
    PRESENCE optional } -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
CellSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD  CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD
    PRESENCE optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD and 7.68Mcps TDD when using multiple frequencies
  { ID id-PCCPCH-LCR-Information-Cell-SetupRqstTDD  CRITICALITY reject EXTENSION PCCPCH-LCR-Information-Cell-SetupRqstTDD
    PRESENCE optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD and 7.68Mcps TDD
  { ID id-DwPCH-LCR-Information-Cell-SetupRqstTDD  CRITICALITY reject EXTENSION DwPCH-LCR-Information-Cell-SetupRqstTDD
    PRESENCE optional }| -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD and 7.68Mcps TDD
  { ID id-ReferenceSFNoffset         CRITICALITY ignore EXTENSION ReferenceSFNoffset
    PRESENCE optional }|
  { ID id-IPDLParameter-Information-Cell-SetupRqstTDD  CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-SetupRqstTDD
    PRESENCE optional }| -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
  { ID id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD  CRITICALITY reject EXTENSION IPDLParameter-Information-LCR-Cell-SetupRqstTDD
    PRESENCE optional }| -- Applicable to 1.28Mcps TDD only
  { ID id-PCCPCH-768-Information-Cell-SetupRqstTDD  CRITICALITY reject EXTENSION PCCPCH-768-Information-Cell-SetupRqstTDD
    PRESENCE optional }| -- Mandatory for 7.68Mcps TDD, Not Applicable to 3.84Mcps TDD or 1.28Mcps TDD
  { ID id-SCH-768-Information-Cell-SetupRqstTDD  CRITICALITY reject EXTENSION SCH-768-Information-Cell-SetupRqstTDD
    PRESENCE optional }| -- Mandatory for 7.68Mcps TDD, Not Applicable to 3.84Mcps TDD or 1.28Mcps TDD
  { ID id-MBSFN-Only-Mode-Indicator-Cell-SetupRqstTDD-LCR  CRITICALITY reject EXTENSION MBSFN-Only-Mode-Indicator
    PRESENCE optional }|
  { ID id-Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD  CRITICALITY reject EXTENSION Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD
    PRESENCE optional }| -- Mandatory for 1.28Mcps TDD when using multiple frequencies
}

SCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  syncCaseIndicator  SyncCaseIndicator-Cell-SetupRqstTDD-PSCH,
  sCH-Power        DL-Power,
  tSTD-Indicator       TSTD-Indicator,
  iE-Extensions ProtocolExtensionContainer { { SCH-Information-Cell-SetupRqstTDD-ExtIEs} }  OPTIONAL,
  ...}

SCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

SyncCaseIndicator-Cell-SetupRqstTDD-PSCH ::= ProtocolIE-Single-Container { { SyncCaseIndicatorIE-Cell-SetupRqstTDD-PSCH} }

SyncCaseIndicatorIE-Cell-SetupRqstTDD-PSCH NBAP-PROTOCOL-IE ::= {
  { ID id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH  CRITICALITY reject TYPE SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH
    PRESENCE mandatory }|
}

SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH ::= CHOICE {
case1           Case1-Cell-SetupRqstTDD,
case2           Case2-Cell-SetupRqstTDD,
...

Case1-Cell-SetupRqstTDD ::= SEQUENCE {
  timeSlot       TimeSlot,
  iE-Ext          ProtocolExtensionContainer { { Case1Item-Cell-SetupRqstTDD-ExtIEs} }  OPTIONAL,
...

Case1Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Case2-Cell-SetupRqstTDD ::= SEQUENCE {
  sCH-TimeSlot      SCH-TimeSlot,
  iE-Ext          ProtocolExtensionContainer { { Case2Item-Cell-SetupRqstTDD-ExtIEs} }  OPTIONAL,
...

Case2Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PCCPCH-Information-Cell-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID        CommonPhysicalChannelID,
  tdd-PhysicalChannelOffset      TDD-PhysicalChannelOffset,
  repetitionPeriod               RepetitionPeriod,
  repetitionLength               RepetitionLength,
  pCCPCH-Power                   PCCPCH-Power,
  sCTD-Indicator                 SCTD-Indicator,
  iE-Ext          ProtocolExtensionContainer { { PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs} }  OPTIONAL,
...

PCCPCH-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

TimeSlotConfigurationList-Cell-SetupRqstTDD ::= SEQUENCE {SIZE (1..15)} OF TimeSlotConfigurationItem-Cell-SetupRqstTDD

TimeSlotConfigurationItem-Cell-SetupRqstTDD ::= SEQUENCE {
  timeSlot       TimeSlot,
  timeSlotStatus       TimeSlotStatus,
  timeSlotDirection      TimeSlotDirection,
  iE-Ext          ProtocolExtensionContainer { { TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs} }  OPTIONAL,
...

TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MBSFN-Cell-ParameterID-Cell-SetupRqstTDD   CRITICALITY reject EXTENSION CellParameterID  PRESENCE optional },--
Applicable only to for MBSFN only mode
TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD

TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlotLCR        TimeSlotLCR,
    timeSlotStatus       TimeSlotStatus,
    timeSlotDirection      TimeSlotDirection,
    iE-Extensions       ProtocolExtensionContainer { { TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs} }  OPTIONAL,
    ...
}

TimeSlotConfigurationItem-LCR-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Time-Slot-Parameter-ID   CRITICALITY reject     EXTENSION CellParameterID   PRESENCE  optional },
    ...
}

PCCPCH-LCR-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID     CommonPhysicalChannelID,
    tdd-PhysicalChannelOffset    TDD-PhysicalChannelOffset,
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    pCCPCH-Power      PCCPCH-Power,
    sCTD-Indicator       SCTD-Indicator,
    tSTD-Indicator       TSTD-Indicator,
    iE-Extensions       ProtocolExtensionContainer { { PCCPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs} }  OPTIONAL,
    ...
}

PCCPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DwPCH-LCR-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelId   CommonPhysicalChannelID,
    tSTD-Indicator     TSTD-Indicator,
    dwPCH-Power      DwPCH-Power,
    iE-Extensions     ProtocolExtensionContainer { { DwPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs} }  OPTIONAL,
    ...
}

DwPCH-LCR-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

IPDLParameter-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    ipDL-TDD-Parameters   IPDL-TDD-Parameters,
    ipDL-Indicator       IPDL-Indicator,
    iE-Extensions       ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstTDD-ExtIEs} }  OPTIONAL,
    ...
}
IPDLParameter-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

IPDLParameter-Information-LCR-Cell-SetupRqstTDD ::= SEQUENCE {
    iPDL-TDD-Parameters-LCR         IPDL-TDD-Parameters-LCR,
    iPDL-Indicator                  iPDL-Indicator,
    iE-Extensions                   ProtocolExtensionContainer {
        { IPDLParameter-Information-LCR-Cell-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

IPDLParameter-Information-LCR-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCCPCH-768-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768    CommonPhysicalChannelID768,
    tdd-PhysicalChannelOffset     TDD-PhysicalChannelOffset,
    repetitionPeriod             RepetitionPeriod,
    repetitionLength             RepetitionLength,
    pCCPCH-Power                  PCCPCH-Power,
    sCTD-Indicator                SCDI-Indicator,
    iE-Extensions                 ProtocolExtensionContainer {
        { PCCPCH-768-Information-Cell-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

PCCPCH-768-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SCH-768-Information-Cell-SetupRqstTDD ::= SEQUENCE {
    commonPhysicalChannelID768    CommonPhysicalChannelID768,
    syncCaseIndicator             SyncCaseIndicator-Cell-SetupRqstTDD-PSCH,
    sCH-Power                     DL-Power,
    tSTD-Indicator                TSTD-Indicator,
    iE-Extensions                 ProtocolExtensionContainer {
        { SCH-768-Information-Cell-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

SCH-768-Information-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-Frequency-List-LCR-MulFreq-Cell-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF Cell-Frequency-Item-LCR-MulFreq-Cell-
SetUpRqstTDD

Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD ::= SEQUENCE {
    uARFCN             UARFCN,
    -- This IE indicates the frequency of Secondary frequency
    timeSlotConfigurationList-LCR-Cell-SetupRqstTDD  TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD,
    -- This IE indicates the Time Slot configuration of Secondary frequency
}
Cell-Frequency-Item-LCR-MulFreq-Cell-SetupRqstTDD-ExtIEs

NBAP-PROTOCOL-EXTENSION ::= {

  -- **************************************************************
  -- CELL SETUP RESPONSE
  -- **************************************************************

  CellSetupResponse ::= SEQUENCE {
    protocolIEs     ProtocolIE-Container  {{CellSetupResponse-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CellSetupResponse-Extensions}}  OPTIONAL,
    ...
  }

  CellSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CriticalityDiagnostics  CRITICALITY ignore   TYPE CriticalityDiagnostics  PRESENCE optional },
    ...
  }

  CellSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
  }

-- **************************************************************
-- CELL SETUP FAILURE
-- **************************************************************

CellSetupFailure ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{CellSetupFailure-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CellSetupFailure-Extensions}}   OPTIONAL,
  ...
}

CellSetupFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-Cause       CRITICALITY ignore   TYPE Cause      PRESENCE mandatory }|
  { ID id-CriticalityDiagnostics   CRITICALITY ignore   TYPE CriticalityDiagnostics  PRESENCE optional },
  ...
}

CellSetupFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
CellReconfigurationRequestFDD ::= SEQUENCE {
  protocolIEs  ProtocolIE-Container {{CellReconfigurationRequestFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CellReconfigurationRequestFDD-Extensions}}  OPTIONAL,
  ...
}

CellReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IEs ::= {
  { ID id-C-ID             CRITICALITY reject TYPE C-ID
    PRESENCE mandatory }|
  { ID id-ConfigurationGenerationID       CRITICALITY reject TYPE ConfigurationGenerationID
    PRESENCE mandatory }|
  { ID id-MaximumTransmissionPower        CRITICALITY reject TYPE MaximumTransmissionPower
    PRESENCE optional }|
  { ID id-Synchronisation-Configuration-Cell-ReconfRqst
    CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst
    PRESENCE optional }|
  { ID id-PrimarySCH-Information-Cell-ReconfRqstFDD
    CRITICALITY reject TYPE PrimarySCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional }|
  { ID id-SecondarySCH-Information-Cell-ReconfRqstFDD
    CRITICALITY reject TYPE SecondarySCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional }|
  { ID id-PrimaryCPICH-Information-Cell-ReconfRqstFDD
    CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-ReconfRqstFDD
    PRESENCE optional }|  { ID id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-ReconfRqstFDD
    PRESENCE optional }|
  { ID id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD
    CRITICALITY reject TYPE PrimaryCCPCH-Information-Cell-ReconfRqstFDD
    PRESENCE optional },
  ...
}

CellReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-IPDLParameter-Information-Cell-ReconfRqstFDD CRITICALITY reject EXTENSION IPDLParameter-Information-Cell-ReconfRqstFDD
    PRESENCE optional }|
  { ID id-CellPortion-InformationList-Cell-ReconfRqstFDD CRITICALITY reject EXTENSION CellPortion-InformationList-Cell-ReconfRqstFDD
    PRESENCE optional }|
  { ID id-MIMO-PilotConfiguration
    CRITICALITY reject EXTENSION MIMO-PilotConfiguration
    PRESENCE optional }|
  { ID id-MIMO-PilotConfigurationExtension
    CRITICALITY reject EXTENSION MIMO-PilotConfigurationExtension
    PRESENCE optional }|
  { ID id-DormantModeIndicator
    CRITICALITY reject EXTENSION DormantModeIndicator
    PRESENCE optional },
  ...
}

Synchronisation-Configuration-Cell-ReconfRqst ::= SEQUENCE {
  n-INSYNC-IND   N-INSYNC-IND,
  n-OUTSYNC-IND   N-OUTSYNC-IND,
  t-RLFAILURE    T-RLFAILURE,
  iE-Extensions  ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs} }  OPTIONAL,
  ...
}

Synchronisation-Configuration-Cell-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
PrimarySCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    primarySCH-Power      DL-Power,
    iE-Extensions       ProtocolExtensionContainer { { PrimarySCH-Information-Cell-ReconfRqstFDD-ExtIEs} }  OPTIONAL,
    ... }

SecondarySCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    secondarySCH-Power      DL-Power,
    iE-Extensions       ProtocolExtensionContainer { { SecondarySCH-Information-Cell-ReconfRqstFDD-ExtIEs} }  OPTIONAL,
    ... }

PrimaryCPICH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    primaryCPICH-Power      PrimaryCPICH-Power,
    iE-Extensions       ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs} }  OPTIONAL,
    ... }

SecondaryCPICH-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container{{ SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD }}

SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD CRITICALITY reject TYPE SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD PRESENCE mandatory }
}

SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    secondaryCPICH-Power      DL-Power,
    iE-Extensions       ProtocolExtensionContainer { { SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD-ExtIEs} }  OPTIONAL,
    ... }
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

PrimaryCCPCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
  bCH-information BCH-information-Cell-ReconfRqstFDD,
  iE-Extensions ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

BCH-information-Cell-ReconfRqstFDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  bCH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { BCH-information-Cell-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

BCH-information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

IPDLParameter-Information-Cell-ReconfRqstFDD::= SEQUENCE {
  iPDL-FDD-Parameters IPDL-FDD-Parameters OPTIONAL,
  iPDL-Indicator IPDL-Indicator,
  iE-Extensions ProtocolExtensionContainer { { IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

CellPortion-InformationList-Cell-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF ProtocolIE-Single-Container{{ CellPortion-InformationItemIE-Cell-ReconfRqstFDD }}

CellPortion-InformationItemIE-Cell-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-CellPortion-InformationItem-Cell-ReconfRqstFDD CRITICALITY reject TYPE CellPortion-InformationItemIE-Cell-ReconfRqstFDD PRESENCE mandatory}
}

CellPortion-InformationItem-Cell-ReconfRqstFDD::= SEQUENCE {
  cellPortionID CellPortionID,
  maximumTransmissionPowerforCellPortion MaximumTransmissionPower,
  iE-Extensions ProtocolExtensionContainer { { CellPortion-InformationItem-Cell-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}
CellPortion-InformationItem-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    
    -- ******************************************************************************
    --  - CELL RECONFIGURATION REQUEST TDD
    --  -******************************************************************************

    CellReconfigurationRequestTDD ::= SEQUENCE {
        protocolIEs ProtocolIE-Container {{CellReconfigurationRequestTDD-IEs}},
        protocolExtensions ProtocolExtensionContainer {{CellReconfigurationRequestTDD-Extensions}}  OPTIONAL,
        ...
    }

    CellReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
        { ID id-C-ID           CRITICALITY reject TYPE C-ID      PRESENCE mandatory }|
        { ID id-ConfigurationGenerationID      CRITICALITY reject TYPE ConfigurationGenerationID    PRESENCE mandatory }|
        { ID id-Synchronisation-Configuration-Cell-ReconfRqst CRITICALITY reject TYPE Synchronisation-Configuration-Cell-ReconfRqst PRESENCE optional }|
        { ID id-TimingAdvanceApplied       CRITICALITY reject TYPE TimingAdvanceApplied    PRESENCE optional }|  { ID id-SCH-Information-Cell-ReconfRqstTDD    CRITICALITY reject TYPE SCH-Information-Cell-ReconfRqstTDD  PRESENCE optional }|
        -- Applicable to 3.84Mcps TDD only
        { ID id-PCCPCH-Information-Cell-ReconfRqstTDD   CRITICALITY reject TYPE PCCPCH-Information-Cell-ReconfRqstTDD PRESENCE optional }|
        -- Not applicable to 7.68Mcps TDD only. For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, PCCPCH is deployed on the MBSFN Special Time Slot [19].
        { ID id-MaximumTransmissionPower      CRITICALITY reject TYPE MaximumTransmissionPower    PRESENCE optional }|
        { ID id-DPCHConstant         CRITICALITY reject TYPE ConstantValue    PRESENCE optional }|
        { ID id-PUSCHConstant         CRITICALITY reject TYPE ConstantValue    PRESENCE optional }|
        { ID id-PRACHConstant         CRITICALITY reject TYPE ConstantValue    PRESENCE optional }|
        { ID id-TimeSlotConfigurationList-Cell-ReconfRqstTDD CRITICALITY reject TYPE TimeSlotConfigurationList-Cell-ReconfRqstTDD PRESENCE optional },
        -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD only. Not Applicable to 1.28Mcps TDD.
        ...
    }

    CellReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
        { ID id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD CRITICALITY reject EXTENSION TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD PRESENCE optional }|
        -- Applicable to 1.28Mcps TDD only, If multiple frequencies exist within the cell indicated by C-ID, this IR indicates the Time Slot reconfiguration of Primary frequency
        { ID id-DwPCH-LCR-Information-Cell-ReconfRqstTDD CRITICALITY reject EXTENSION DwPCH-LCR-Information-Cell-ReconfRqstTDD PRESENCE optional }|
        -- Applicable to 1.28Mcps TDD only
SCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  sCH-Power                        DL-Power,
  iE-Extensions                    ProtocolExtensionContainer {{ PSCH-Information-Cell-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...                           }

PSCH-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...                                }

PCCPCH-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  pCCPCH-Power                     PCCPCH-Power,
  iE-Extensions                    ProtocolExtensionContainer {{ PCCPCH-Information-Cell-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...                           }

PCCPCH-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...                                }

TimeSlotConfigurationList-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlotConfigurationItem-Cell-ReconfRqstTDD

TimeSlotConfigurationItem-Cell-ReconfRqstTDD ::= SEQUENCE {
  timeSlot                        TimeSlot,
  timeSlotStatus                  TimeSlotStatus,
  timeSlotDirection               TimeSlotDirection,
  iE-Extensions                    ProtocolExtensionContainer {{ TimeSlotConfigurationItem-Cell-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...                           }

TimeSlotConfigurationItem-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...                                }

TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..7)) OF TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD

...
TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD ::= SEQUENCE {
  timeSlotLCR               TimeSlotLCR,
  timeSlotStatus            TimeSlotStatus,
  timeSlotDirection         TimeSlotDirection,
  iE-Extensions             ProtocolExtensionContainer { TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD-ExtIEs } OPTIONAL,
  ...
}

TimeSlotConfigurationItem-LCR-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DwPCH-LCR-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelId   CommonPhysicalChannelID,
  dwPCH-Power               DwPCH-Power,
  iE-Extensions             ProtocolExtensionContainer { DwPCH-LCR-Information-Cell-ReconfRqstTDD-ExtIEs } OPTIONAL,
  ...
}

DwPCH-LCR-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

IPDLParameter-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
  iPDL-TDD-Parameters       IPDL-TDD-Parameters OPTIONAL,
  iPDL-Indicator           IPDL-Indicator,
  iE-Extensions            ProtocolExtensionContainer { IPDLParameter-Information-Cell-ReconfRqstTDD-ExtIEs } OPTIONAL,
  ...
}

IPDLParameter-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

IPDLParameter-Information-LCR-Cell-ReconfRqstTDD ::= SEQUENCE {
  iPDL-TDD-Parameters-LCR  IPDL-TDD-Parameters-LCR OPTIONAL,
  iPDL-Indicator           IPDL-Indicator,
  iE-Extensions            ProtocolExtensionContainer { IPDLParameter-Information-LCR-Cell-ReconfRqstTDD-ExtIEs } OPTIONAL,
  ...
}

IPDLParameter-Information-LCR-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SCH-768-Information-Cell-ReconfRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID768 CommonPhysicalChannelID768,
  sCH-Power                 DL-Power,
  iE-Extensions             ProtocolExtensionContainer { SCH-768-Information-Cell-ReconfRqstTDD-ExtIEs } OPTIONAL,
  ...
}

ETSI
PSCH-768-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
... 
}

PCCPCH-768-Information-Cell-ReconfRqstTDD ::= SEQUENCE { 
  commonPhysicalChannelID768 CommonPhysicalChannelID768, 
PCCPCH-Power PCCPCH-Power, 
iE-Extensions ProtocolExtensionContainer { { PCCPCH-768-Information-Cell-ReconfRqstTDD-ExtIEs} } OPTIONAL, 
... 
}

PCCPCH-768-Information-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
... 
}

UARFCN-Adjustment ::= CHOICE { 
  cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD, 
  cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRqstTDD Cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRqstTDD, 
  cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD, 
... 
}

Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE { 
  uARFCN UARFCN, 
  -- This IE indicates the frequency of Secondary frequency to add 
  timeSlotConfigurationList-LCR-Cell-ReconfRqstTDD TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD, 
  -- This IE indicates the Time Slot configuration of Secondary frequency to add 
  iE-Extensions ProtocolExtensionContainer { { Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs} } OPTIONAL, 
... 
}

Cell-Frequency-Add-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
... 
}

Cell-Frequency-ModifyList-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD

Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE { 
  uARFCN UARFCN, 
  -- This IE indicates the frequency of Secondary frequency to modify 
  timeSlotConfigurationList-LCR-Cell-ReconfRqstTDD TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD, 
  -- This IE indicates the Time Slot reconfiguration of Secondary frequency 
  iE-Extensions ProtocolExtensionContainer { { Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs} } OPTIONAL, 
... 
}

Cell-Frequency-ModifyItem-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
... 
}
Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD ::= SEQUENCE {
  uARFCN             UARFCN,  -- This IE indicates the frequency of Secondary Frequency to delete
  iE-Extensions       ProtocolExtensionContainer { { Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs} }
  OPTIONAL,
  ...
}

Cell-Frequency-Delete-LCR-MulFreq-Cell-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- **********************************************
-- CELL RECONFIGURATION RESPONSE
-- **********************************************

CellReconfigurationResponse ::= SEQUENCE {
  protocolIEs     ProtocolIE-Container  {{CellReconfigurationResponse-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CellReconfigurationResponse-Extensions}}  OPTIONAL,
  ...
}

CellReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {  { ID id-CriticalityDiagnostics  CRITICALITY ignore   TYPE CriticalityDiagnostics  PRESENCE optional },
  ...
}

CellReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- **********************************************
-- CELL RECONFIGURATION FAILURE
-- **********************************************

CellReconfigurationFailure ::= SEQUENCE {
  protocolIEs     ProtocolIE-Container  {{CellReconfigurationFailure-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CellReconfigurationFailure-Extensions}}  OPTIONAL,
  ...
}

CellReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {  { ID id-Cause      CRITICALITY ignore   TYPE Cause       PRESENCE mandatory },
  { ID id-CriticalityDiagnostics      CRITICALITY ignore   TYPE CriticalityDiagnostics  PRESENCE optional },
  ...
}

CellReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
CELL DELETION REQUEST

CellDeletionRequest ::= SEQUENCE {
  protocolIEs     ProtocolIE-Container  {{CellDeletionRequest-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CellDeletionRequest-Extensions}}  OPTIONAL,
  ...
}

CellDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID   CRITICALITY reject   TYPE C-ID  PRESENCE mandatory },
  ...
}

CellDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CELL DELETION RESPONSE

CellDeletionResponse ::= SEQUENCE {
  protocolIEs     ProtocolIE-Container  {{CellDeletionResponse-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CellDeletionResponse-Extensions}}  OPTIONAL,
  ...
}

CellDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CriticalityDiagnostics CRITICALITY ignore   TYPE CriticalityDiagnostics  PRESENCE optional },
  ...
}

CellDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RESOURCE STATUS INDICATION

ResourceStatusIndication ::= SEQUENCE {
  protocolIEs     ProtocolIE-Container  {{ResourceStatusIndication-IEs}},
  protocolExtensions ProtocolExtensionContainer {{ResourceStatusIndication-Extensions}}  OPTIONAL,
  ...
}
ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-IndicationType-ResourceStatusInd CRITICALITY ignore TYPE IndicationType-ResourceStatusInd PRESENCE mandatory }|
  { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE optional },
  ...
}

ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

IndicationType-ResourceStatusInd ::= CHOICE {
  no-Failure No-Failure-ResourceStatusInd,
  serviceImpacting ServiceImpacting-ResourceStatusInd,
  ...
}

No-Failure-ResourceStatusInd ::= SEQUENCE {
  local-Cell-InformationList Local-Cell-InformationList-ResourceStatusInd,
  local-Cell-Group-InformationList Optional,
  iE-Extensions ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs } } Optional,
  ...
}

No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Power-Local-Cell-Group-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList-ResourceStatusInd PRESENCE optional },
  ...
}

Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE-ResourceStatusInd }}

Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-InformationItem-ResourceStatusInd PRESENCE mandatory }
}

Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
  local-CellID Local-Cell-ID,
  addorDeleteIndicator AddorDeleteIndicator,
  dl-or-global-capacityCredit DL-or-Global-CapacityCredit OPTIONAL,
  -- This IR shall be present if AddorDeleteIndicator IE is set to 'add'
  ul-capacityCredit UL-CapacityCredit OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
  -- This IR shall be present if AddorDeleteIndicator IE is set to 'add'
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
  -- This IR shall be present if AddorDeleteIndicator IE is set to 'add'
  maximumDL-PowerCapability MaximumDL-PowerCapability OPTIONAL,
  -- This IR shall be present if AddorDeleteIndicator IE is set to 'add'
  minSpreadingFactor MinSpreadingFactor OPTIONAL,
  -- This IR shall be present if AddorDeleteIndicator IE is set to 'add'
  minimumDL-PowerCapability MinimumDL-PowerCapability OPTIONAL,
  -- This IR shall be present if AddorDeleteIndicator IE is set to 'add'
  minimumDL-PowerCapability MinimumDL-PowerCapability OPTIONAL,
local-Cell-Group-ID       Local-Cell-ID        OPTIONAL,
,iE-Extensions        ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
...

Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-ReferenceClockAvailability CRITICALITY ignore EXTENSION ReferenceClockAvailability PRESENCE optional }|
-- This IE shall be present if AddDeleteIndicator IE is set to 'add' and the Local Cell is related to a TDD cell
{ ID id-Power-Local-Cell-Group-ID CRITICALITY ignore EXTENSION Local-Cell-ID PRESENCE optional }|
{ ID id-HSDPA-Capability CRITICALITY ignore EXTENSION HSDPA-Capability PRESENCE optional }|
{ ID id-E-DCH-Capability CRITICALITY ignore EXTENSION E-DCH-Capability PRESENCE optional }|
{ ID id-E-DCH-TTI2ms-Capability CRITICALITY ignore EXTENSION E-DCH-TTI2ms-Capability PRESENCE conditional }|
-- The IE shall be present if 'E-DCH Capability IE' is set to 'E-DCH Capable'.
{ ID id-E-DCH-Capability IS OPTIONAL }|
{ ID id-E-DCH-SF-Capability CRITICALITY ignore EXTENSION E-DCH-SF-Capability PRESENCE conditional }|
{ ID id-E-DCH-HARQ-Combining-Capability CRITICALITY ignore EXTENSION E-DCH-Capability PRESENCE conditional }|
{ ID id-E-DCH-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-CapacityConsumptionLaw PRESENCE optional }|
{ ID id-F-DPCH-Capability CRITICALITY ignore EXTENSION F-DPCH-Capability PRESENCE optional }|
{ ID id-E-DCH-TDD-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw PRESENCE optional }|
{ ID id-ContinuousPacketConnectivityDTX-DRX-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityDTX-DRX-Capability PRESENCE optional }|
-- The IE shall be present if 'Continuous Packet Connectivity DTX-DRX Capable' is present and set to 'Continuous Packet Connectivity DTX-DRX Capable'.
{ ID id-Max-UE-DTX-Cycle CRITICALITY ignore EXTENSION Max-UE-DTX-Cycle PRESENCE conditional }|
-- The IE shall be present if 'Continuous Packet Connectivity DTX-DRX Capable' is present and set to 'Continuous Packet Connectivity DTX-DRX Capable'.
{ ID id-ContinuousPacketConnectivityNS-SCCH-less-Capability CRITICALITY ignore EXTENSION ContinuousPacketConnectivityNS-SCCH-less-Capability PRESENCE optional }|
{ ID id-MIMO-Capability CRITICALITY ignore EXTENSION MIMO-Capability PRESENCE optional }|
{ ID id-SixtyfourQAM-DL-Capability CRITICALITY ignore EXTENSION SixtyfourQAM-DL-Capability PRESENCE optional }|
{ ID id-MBMS-Capability CRITICALITY ignore EXTENSION MBMS-Capability PRESENCE optional }|
{ ID id-Enhanced-PACH-Capability CRITICALITY ignore EXTENSION Enhanced-PACH-Capability PRESENCE optional }|
{ ID id-Enhanced-E-DCH-Capability CRITICALITY ignore EXTENSION Enhanced-E-DCH-Capability PRESENCE conditional }|
-- The IE shall be present if 'Enhanced PACH Capability IE' is set to 'Enhanced PACH Capable'.
{ ID id-SixteenQAM-UL-Capability CRITICALITY ignore EXTENSION SixteenQAM-UL-Capability PRESENCE optional }|
{ ID id-HSDSCH-MACpDU-SizeCapability CRITICALITY ignore EXTENSION HSDSCH-MACpDU-SizeCapability PRESENCE optional }|
{ ID id-MBMS-Only-Mode-Capability CRITICALITY ignore EXTENSION MBMS-Only-Mode-Capability PRESENCE optional }|
{ ID id-E-DPCCH-SlotFormatCapability CRITICALITY ignore EXTENSION E-DPCCH-SlotFormatCapability PRESENCE optional }|
{ ID id-E-DCH-MACpDU-SizeCapability CRITICALITY ignore EXTENSION E-DCH-MACpDU-SizeCapability PRESENCE optional }|
{ ID id-Common-EDCH-Capability CRITICALITY ignore EXTENSION Common-EDCH-Capability PRESENCE optional }|
{ ID id-B-AI-Capability CRITICALITY ignore EXTENSION B-AI-Capability PRESENCE optional }|
{ ID id-Semi-PersistentScheduling-CapabilityCRITICALITY ignore EXTENSION Semi-PersistentScheduling-Capability PRESENCE optional }|
{ ID id-ContinuousPacketConnectivityDRX-CapabilityCRITICALITY ignore EXTENSION ContinuousPacketConnectivityDRX-Capability PRESENCE optional }|
-- The IE shall be present if 'Continuous Packet Connectivity DRX Capable' is present and set to 'Continuous Packet Connectivity DRX Capable'.
{ ID id-Enhanced-UE-DRX-Capability CRITICALITY ignore EXTENSION Enhanced-UE-DRX-Capability PRESENCE optional }|
{ ID id-Enhanced-UE-DRX-CapabilityLCP CRITICALITY ignore EXTENSION Enhanced-UE-DRX-CapabilityLCP PRESENCE optional }|
{ ID id-Enhanced-UE-DRX-CapabilityLCR CRITICALITY ignore EXTENSION Enhanced-UE-DRX-CapabilityLCR PRESENCE optional }|
{ ID id-Enhanced-UE-DRX-CapabilityLCP CRITICALITY ignore EXTENSION Enhanced-UE-DRX-CapabilityLCP PRESENCE optional }|
-- The IE shall be present if 'Continuous Packet Connectivity DRX Capable' is present and set to 'Continuous Packet Connectivity DRX Capable'.
{ ID id-MIMO-CapabilityInfo CRITICALITY ignore EXTENSION Multi-Cell-CapabilityInfo PRESENCE optional }|
{ ID id-Semi-PersistentScheduling-CapabilityLCP CRITICALITY ignore EXTENSION Semi-PersistentScheduling-CapabilityLCP PRESENCE optional }|
{ ID id-ContinuousPacketConnectivityDRX-CapabilityLCP CRITICALITY ignore EXTENSION ContinuousPacketConnectivityDRX-CapabilityLCP PRESENCE optional }|
{ ID id-MIMO-Power-Offset-For-S-CPICH-Capability CRITICALITY ignore EXTENSION MIMO-PowerOffsetForS-CPICH-Capability PRESENCE optional }|
}
3GPP TS 25.433 version 9.5.0 Release 9

832

ETSI TS 125 433 V9.5.0 (2011-03)

{ ID id-TxDiversityOnDLControlChannelsByMIMOUECapability CRITICALITY ignore EXTENSION TxDiversityOnDLControlChannelsByMIMOUECapability PRESENCE optional } |
| { ID id-Single-Stream-MIMO-Capability CRITICALITY ignore EXTENSION Single-Stream-MIMO-Capability PRESENCE optional } |
| { ID id-Dual-Band-Capability-Info CRITICALITY ignore EXTENSION Dual-Band-Capability-Info PRESENCE optional } |
| { ID id-CellPortion-CapabilityLCR CRITICALITY ignore EXTENSION CellPortion-CapabilityLCR PRESENCE optional } |
| { ID id-Cell-Capability-Container CRITICALITY ignore EXTENSION Cell-Capability-Container PRESENCE optional } |
| { ID id-TS0-CapabilityLCR CRITICALITY ignore EXTENSION TS0-CapabilityLCR PRESENCE optional } |
| { ID id-Adaptive-Special-Burst-Power-CapabilityLCR CRITICALITY ignore EXTENSION Adaptive-Special-Burst-Power-CapabilityLCR PRESENCE optional } |

Local-Cell-Group-InformationItemResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-InformationItemIE-ResourceStatusInd }}

Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
| { ID id-Local-Cell-Group-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-Group-InformationItem-ResourceStatusInd PRESENCE mandatory } |

Local-Cell-Group-InformationItem-ResourceStatusInd ::= SEQUENCE {
local-Cell-Group-ID Local-Cell-ID,
dl-or-global-capacityCredit DL-or-Global-CapacityCredit,
ul-capacityCredit UL-CapacityCredit OPTIONAL,
commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
iE-Extensions ProtocolExtensionContainer {{ Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs } }
OPTIONAL,
...
}

Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
| { ID id-E-DCH-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-CapacityConsumptionLaw PRESENCE optional } |
| { ID id-E-DCH-TDD-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw PRESENCE optional } |

Power-Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
| { ID id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem-ResourceStatusInd PRESENCE mandatory } |

Power-Local-Cell-Group-InformationItem-ResourceStatusInd ::= SEQUENCE {
power-Local-Cell-Group-ID Local-Cell-ID,
maximumDL-PowerCapability MaximumDL-PowerCapability,
iE-Extensions ProtocolExtensionContainer {{ Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs } }
OPTIONAL,
...
}
Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

ServiceImpacting-ResourceStatusInd ::= SEQUENCE {
  local-Cell-InformationList Local-Cell-InformationList2-ResourceStatusInd OPTIONAL,
  local-Cell-Group-InformationList Local-Cell-Group-InformationList2-ResourceStatusInd OPTIONAL,
  cCP-InformationList CCP-InformationList2-ResourceStatusInd OPTIONAL,
  cell-InformationList Cell-InformationList2-ResourceStatusInd OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ ServiceImpactingItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
  ...
}

ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList2-ResourceStatusInd PRESENCE optional },
  ...
}

Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE2-ResourceStatusInd } }

Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-InformationItem2-ResourceStatusInd PRESENCE mandatory }
}

Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
  local-Cell-ID Local-Cell-ID,
  dl-or-global-capacityCredit DL-or-Global-CapacityCredit OPTIONAL,
  ul-capacityCredit UL-CapacityCredit OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
  maximum-DL-PowerCapability MaximumDL-PowerCapability OPTIONAL,
  minSpreadingFactor MinSpreadingFactor OPTIONAL,
  minimumDL-PowerCapability MinimumDL-PowerCapability OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs} } OPTIONAL,
  ...
}

Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-ReferenceClockAvailability CRITICALITY ignore EXTENSION ReferenceClockAvailability PRESENCE optional } |
  { ID id-HSDPA-Capability CRITICALITY ignore EXTENSION HSDPA-Capability PRESENCE optional } |
  { ID id-E-DCH-Capability CRITICALITY ignore EXTENSION E-DCH-Capability PRESENCE optional } |
  { ID id-E-DCH-TTI2ms-Capability CRITICALITY ignore EXTENSION E-DCH-TTI2ms-Capability PRESENCE conditional } |
  -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
  { ID id-E-DCH-SF-Capability CRITICALITY ignore EXTENSION E-DCH-SF-Capability PRESENCE conditional } |
  -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
  { ID id-E-DCH-HARQ-Combining-Capability CRITICALITY ignore EXTENSION E-DCH-HARQ-Combining-Capability PRESENCE conditional } |
  -- The IE shall be present if E-DCH Capability IE is set to 'E-DCH Capable'.
  { ID id-E-DCH-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-CapacityConsumptionLaw PRESENCE optional } |
  { ID id-F-DPCH-Capability CRITICALITY ignore EXTENSION F-DPCH-Capability PRESENCE optional } |
  ...
}
Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-InformationItemIE2-ResourceStatusInd }}
Local-Cell-Group-InformationItem2-ResourceStatusInd ::= SEQUENCE {
  local-Cell-Group-ID          Local-Cell-ID,  
  dl-or-global-capacityCredit  DL-or-Global-CapacityCredit  OPTIONAL,  
  ul-capacityCredit           UL-CapacityCredit  OPTIONAL,  
  commonChannelsCapacityConsumptionLaw          CommonChannelsCapacityConsumptionLaw  OPTIONAL,  
  dedicatedChannelsCapacityConsumptionLaw       DedicatedChannelsCapacityConsumptionLaw  OPTIONAL,  
  iE-Extensions       ProtocolExtensionContainer  OPTIONAL,  
  ... 
}

Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-DCH-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCHCapacityConsumptionLaw PRESENCE optional } | 
  { ID id-E-DCH-TDD-CapacityConsumptionLaw CRITICALITY ignore EXTENSION E-DCH-TDD-CapacityConsumptionLaw PRESENCE optional }, 
  ... 
}

CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-ResourceStatusInd } }

CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IE ::= {
  { ID id-CCP-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE CCP-InformationItem-ResourceStatusInd PRESENCE mandatory } 
}

CCP-InformationItem-ResourceStatusInd ::= SEQUENCE {
  communicationControlPortID          CommunicationControlPortID,  
  resourceOperationalState      ResourceOperationalState,  
  availabilityStatus            AvailabilityStatus,  
  iE-Extensions       ProtocolExtensionContainer  OPTIONAL,  
  ... 
}

CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-ResourceStatusInd } }

Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IE ::= {
  { ID id-Cell-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Cell-InformationItem-ResourceStatusInd PRESENCE mandatory } 
}

Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
  c-ID          C-ID,  
  resourceOperationalState      ResourceOperationalState  OPTIONAL,  
  availabilityStatus            AvailabilityStatus  OPTIONAL,  
  primary-SCH-Information      P-SCH-Information-ResourceStatusInd  OPTIONAL, -- FDD only  
  secondary-SCH-Information     S-SCH-Information-ResourceStatusInd  OPTIONAL, -- FDD only  
  primary-CPICH-Information     P-CPICH-Information-ResourceStatusInd  OPTIONAL, -- FDD only  
  secondary-CPICH-Information   S-CPICH-InformationList-ResourceStatusInd  OPTIONAL, -- FDD only  
  primary-CCPCH-Information     P-CCPCH-Information-ResourceStatusInd  OPTIONAL,  
  bCH-Information              BCH-Information-ResourceStatusInd  OPTIONAL,  
  ... 
}
secondary-CCPCH-InformationList S-CCPCH-InformationList-ResourceStatusInd OPTIONAL,
pCH-Information PCH-Information-ResourceStatusInd OPTIONAL,
PICH-Information PICH-Information-ResourceStatusInd OPTIONAL,
fACH-InformationList FACH-InformationList-ResourceStatusInd OPTIONAL,
pRACH-InformationList PRACH-InformationList-ResourceStatusInd OPTIONAL,
aICH-InformationList AICH-InformationList-ResourceStatusInd OPTIONAL, -- FDD only
notUsed-1-pCPCH-InformationList NULL OPTIONAL,
notUsed-2-cPCH-InformationList NULL OPTIONAL,
notUsed-3-aP-AICH-InformationList NULL OPTIONAL,
notUsed-4-cDCA-IICH-InformationList NULL OPTIONAL,
sCH-Information SCH-Information-ResourceStatusInd OPTIONAL, -- Applicable to 3.84Mcps TDD only
iE-Extensions ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
...
}
Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-FPACH-LCR-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION FPACH-LCR-InformationList-ResourceStatusInd PRESENCE optional } -- Applicable to 1.28Mcps TDD only
  { ID id-DwPCH-LCR-Information-ResourceStatusInd CRITICALITY ignore EXTENSION DwPCH-LCR-Information-ResourceStatusInd PRESENCE optional } -- Applicable to 1.28Mcps TDD only
  { ID id-HSDSCH-Resources-Information-ResourceStatusInd CRITICALITY ignore EXTENSION HS-DSCH-Resources-Information-ResourceStatusInd PRESENCE optional } -- For 1.28Mcps TDD, this HS-DSCH Resource Information is for the first Frequency repetition, HS-DSCH Resource Information for Frequency repetitions 2 and on, should be defined in MultipleFreq-HS-DSCH-Resources-InformationList-ResourceStatusInd.
  { ID id-MICH-Information-ResourceStatusInd CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information PRESENCE optional } |
  { ID id-s-CCPCH-InformationListExt-ResourceStatusInd CRITICALITY ignore EXTENSION S-CCPCH-InformationListExt-ResourceStatusInd PRESENCE optional } |
  { ID id-p-PICH-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION S-CCPCH-InformationListExt-ResourceStatusInd PRESENCE optional } |
  { ID id-fACH-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION FACH-InformationList-ResourceStatusInd PRESENCE optional } |
  { ID id-PICH-768-Information-ResourceStatusInd CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional } |
  { ID id-sCH-768-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional } |
  { ID id-MICH-768-Information-ResourceStatusInd CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information768 PRESENCE optional } |
  { ID id-E-RUCCH-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION E-RUCCH-InformationList-ResourceStatusInd PRESENCE optional } |
P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-ResourceStatusInd }}

P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IIES ::= {
  { ID id-P-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-ResourceStatusInd }}

S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IIES ::= {
  { ID id-S-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}

P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IIES ::= {
  { ID id-P-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-ResourceStatusInd }}

S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IIES ::= {
  { ID id-S-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}

P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IIES ::= {
  { ID id-P-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

BCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ BCH-InformationIE-ResourceStatusInd }}

BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IIES ::= {
  { ID id-BCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}

S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}
S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

PCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PCH-InformationIE-ResourceStatusInd }}
PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}
PICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PICH-InformationIE-ResourceStatusInd }}
PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-ResourceStatusInd }}
FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}

PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-ResourceStatusInd }}
PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-ResourceStatusInd }}
RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}

AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-ResourceStatusInd }}
AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ SCH-InformationIE-ResourceStatusInd }}
SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

FPACH-LCR-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-ResourceStatusInd }}
FPACH-LCR-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  ID id-FPACH-LCR-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE mandatory
}

DwPCH-LCR-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ DwPCH-LCR-InformationIE-ResourceStatusInd }}

DwPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  ID id-DwPCH-LCR-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE mandatory
}

HS-DSCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs }}
} OPTIONAL,

HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ID id-UARFCNforNt  CRITICALITY ignore  EXTENSION UARFCN  PRESENCE optional},
  -- Applicable to 1.28Mcps TDD when using multiple frequencies.

S-CCPCH-InformationListExt-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExt)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}

S-CCPCH-LCR-InformationListExt-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExtLCR)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}

E-DCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer {{ E-DCH-Resources-Information-ResourceStatusInd-ExtIEs }}
} OPTIONAL,

E-DCH-Resources-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ID id-UARFCNforNt  CRITICALITY ignore  EXTENSION UARFCN  PRESENCE optional},
  -- Applicable to 1.28Mcps TDD when using multiple frequencies.

PLCCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPLCCHCell)) OF ProtocolIE-Single-Container {{ PLCCH-InformationItemIE-ResourceStatusInd }}

PLCCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  ID id-PLCCH-Information-ResourceStatusInd  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information  PRESENCE mandatory
}

S-CCPCH-768-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell768)) OF ProtocolIE-Single-Container {{ S-CCPCH-768-InformationItemIE-ResourceStatusInd }}

S-CCPCH-768-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
}
| ID | PRACH-768-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-768-InformationItemIE-ResourceStatusInd }} |
| ID | E-RUCCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxE-RUCCHCell)) OF ProtocolIE-Single-Container {{ E-RUCCH-InformationItemIE-ResourceStatusInd }} |
| ID | Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd }} |
| ID | UPPCH-LCR-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ UPPCH-LCR-InformationItem-ResourceStatusInd }} |

**UPPCH-LCR-InformationList-ResourceStatusInd**

- **UARFCN**
- **ResourceOperationalState**
- **AvailabilityStatus**
- **cause**
- **iE-Extensions**

**UPPCH-LCR-InformationItem-ResourceStatusInd**

- **ID**
- **PRACH-768-InformationList-ResourceStatusInd**
- **E-RUCCH-InformationList-ResourceStatusInd**
- **Cell-Frequency-List-Information-LCR-MulFreq-ResourceStatusInd**
- **UPPCH-LCR-InformationList-ResourceStatusInd**
UPPCH-LCR-InformationItem-ResourceStatusInd ::= SEQUENCE {
    uARFCN        UARFCN OPTIONAL,
    uPPCHPositionLCR        UPPCHPositionLCR,  
    resourceOperationalState   ResourceOperationalState,  
    availabilityStatus     AvailabilityStatus,  
    iE-Extensions      ProtocolExtensionContainer {{ UPPCH-LCR-InformationItem-ResourceStatusInd-ExtIEs }}  OPTIONAL, 
    ...  
}

UPPCH-LCR-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
    ... 
}

MultipleFreq-HS-DSCH-Resources-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFrequencyInCell-1)) OF ProtocolIE-Single-Container{{ MultipleFreq-HS-DSCH-Resources-InformationItem-ResourceStatusInd }} 
--Includes the 2nd through the max number of frequencies information repetitions.

MultipleFreq-HS-DSCH-Resources-InformationItem-ResourceStatusInd NBAP-PROTOCOL-IES ::= { 
    { ID id-HS-DSCH-Resources-Information-ResourceStatusInd CRITICALITY ignore TYPE HS-DSCH-Resources-Information-ResourceStatusInd PRESENCE mandatory } 
}

Power-Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellInNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-Group-InformationItemIE2-ResourceStatusInd }}

Power-Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= { 
    { ID id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem2-ResourceStatusInd PRESENCE mandatory } 
}

Power-Local-Cell-Group-InformationItem2-ResourceStatusInd ::= SEQUENCE { 
    power-Local-Cell-Group-ID   Local-Cell-ID, 
    maximumDL-PowerCapability   MaximumDL-PowerCapability,  
    iE-Extensions      ProtocolExtensionContainer {{ Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs }}  OPTIONAL, 
    ...  
}

Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
    ... 
}

MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFrequencyInCell-1)) OF ProtocolIE-Single-Container{{ MultipleFreq-E-DCH-Resources-InformationItem-ResourceStatusInd }} 
--Includes the 2nd through the max number of frequencies information repetitions.

MultipleFreq-E-DCH-Resources-InformationItem-ResourceStatusInd NBAP-PROTOCOL-IES ::= { 
    { ID id-E-DCH-Resources-Information-ResourceStatusInd CRITICALITY ignore TYPE E-DCH-Resources-Information-ResourceStatusInd PRESENCE mandatory } 
}
-- SYSTEM INFORMATION UPDATE REQUEST
-- **************************************************************

SystemInformationUpdateRequest ::= SEQUENCE {
  protocolIEs  ProtocolIE-Container  {{SystemInformationUpdateRequest-IEs}},
  protocolExtensions  ProtocolExtensionContainer  {{SystemInformationUpdateRequest-Extensions}}  OPTIONAL,
  ... 
}

SystemInformationUpdateRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID                      CRITICALITY reject  TYPE C-ID      PRESENCE mandatory }|
  { ID id-BCCH-ModificationTime    CRITICALITY reject  TYPE BCCH-ModificationTime  PRESENCE optional }|
  { ID id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst  CRITICALITY reject  TYPE MIB-SB-SIB-InformationList-SystemInfoUpdateRqst  PRESENCE mandatory },
  ...
}

SystemInformationUpdateRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

MIB-SB-SIB-InformationList-SystemInfoUpdateRqst ::= SEQUENCE (SIZE (1..maxIB)) OF MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst

MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst ::= SEQUENCE {
  iB-Type        IB-Type,
  iB-OC-ID       IB-OC-ID,
  deletionIndicator    DeletionIndicator-SystemInfoUpdate,
  iE-Extensions      ProtocolExtensionContainer  { { MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs} }  OPTIONAL,
  ...
}

MIB-SB-SIB-InformationItem-SystemInfoUpdateRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DeletionIndicator-SystemInfoUpdate ::= CHOICE {
  no-Deletion       No-Deletion-SystemInfoUpdate,
  yes-Deletion      NULL
}

No-Deletion-SystemInfoUpdate ::= SEQUENCE {
  sIB-Originator     SIB-Originator  OPTIONAL,
  -- This IE shall be present if the IB-Type IE is set to "SIB"
  iB-SG-REP        IB-SG-REP     OPTIONAL,
  segmentInformationList SegmentInformationList-SystemInfoUpdate,
  iE-Extensions      ProtocolExtensionContainer  { { No-DeletionItem-SystemInfoUpdate-ExtIEs} }  OPTIONAL,
  ...
}
No-DeletionItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SegmentInformationList-SystemInfoUpdate ::= ProtocolIE-Single-Container {{ SegmentInformationListIEs-SystemInfoUpdate }}

SegmentInformationListIEs-SystemInfoUpdate NBAP-PROTOCOL-IES ::= {
   { ID id-SegmentInformationListIE-SystemInfoUpdate   CRITICALITY reject TYPE SegmentInformationListIE-SystemInfoUpdate  PRESENCE mandatory }
}

SegmentInformationListIE-SystemInfoUpdate ::= SEQUENCE (SIZE (1..maxIBSEG)) OF SegmentInformationItem-SystemInfoUpdate

SegmentInformationItem-SystemInfoUpdate ::= SEQUENCE {
   iB-SG-POS        IB-SG-POS   OPTIONAL,
   segment-Type       Segment-Type  OPTIONAL,
   -- This IE shall be present if the SIB Originator IE is set to "CRNC" or the IB-Type IE is set to "MIB", "SB1" or "SB2"
   iB-SG-DATA        IB-SG-DATA   OPTIONAL,
   -- This IE shall be present if the SIB Originator IE is set to "CRNC" or the IB-Type IE is set to "MIB", "SB1" or "SB2"
   iE-Extensions       ProtocolExtensionContainer { { SegmentInformationItem-SystemInfoUpdate-ExtIEs} } OPTIONAL,
   ...
}

SegmentInformationItem-SystemInfoUpdate-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- **************************************************************
-- SYSTEM INFORMATION UPDATE RESPONSE
-- **************************************************************

SystemInformationUpdateResponse ::= SEQUENCE {
   protocolIEs    ProtocolIE-Container     {{SystemInformationUpdateResponse-IEs}},
   protocolExtensions  ProtocolExtensionContainer {{SystemInformationUpdateResponse-Extensions}}  OPTIONAL,
}

SystemInformationUpdateResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics  CRITICALITY ignore  TYPE CriticalityDiagnostics    PRESENCE optional },
   ...
}

SystemInformationUpdateResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- **************************************************************
-- SYSTEM INFORMATION UPDATE FAILURE
-- **************************************************************
SystemInformationUpdateFailure ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{SystemInformationUpdateFailure-IEs}},
  protocolExtensions ProtocolExtensionContainer {{SystemInformationUpdateFailure-Extensions}} OPTIONAL,
  ...
}

SystemInformationUpdateFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

SystemInformationUpdateFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *******************************************************************************************
-- RADIO LINK SETUP REQUEST FDD
-- *******************************************************************************************

RadioLinkSetupRequestFDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkSetupRequestFDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}} OPTIONAL,
  ...
}

RadioLinkSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY reject TYPE CRNC-CommunicationContextID PRESENCE mandatory } |
  { ID id-UL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-SetupRqstFDD PRESENCE mandatory } |
  { ID id-DL-DPCH-Information-RL-SetupRqstFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-SetupRqstFDD PRESENCE optional } |
  { ID id-DCH-FDD-Information CRITICALITY reject TYPE DCH-FDD-Information PRESENCE mandatory } |
  { ID id-RL-InformationList-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD PRESENCE mandatory } |
  { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional } |
  { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional },
  ...
}

RadioLinkSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-PowerBalancing-Information CRITICALITY ignore EXTENSION DL-PowerBalancing-Information PRESENCE optional } |
  { ID id-HSDSCH-FDD-Information CRITICALITY reject EXTENSION HSDSCH-FDD-Information PRESENCE optional } |
  { ID id-HSCH-RNTI CRITICALITY reject EXTENSION HSCH-RNTI PRESENCE conditional } |
  -- The IE shall be present if HSDSCH Information IE is present
  { ID id-HSPDSCH-RS-ID CRITICALITY reject EXTENSION RL-ID PRESENCE conditional } |

-- *******************************************************************************************
-- The IE shall be present if HS-DSCCH Information IE is present
{ ID id-E-DCH-Information-RL-SetupReqFDD CRITICALITY reject EXTENSION E-DPCCH-Information-RL-SetupReqFDD PRESENCE optional }|
{ ID id-F-DCH-Information-RL-SetupReqFDD CRITICALITY reject EXTENSION F-DCH-Information-RL-SetupReqFDD PRESENCE optional }|
{ ID id-E-DCH-RSChannelisationCodeLength CRITICALITY ignore EXTENSION E-DCH-RSChannelisationCodeLength PRESENCE optional }|
{ ID id-E-DCH-RSConfiguration IE CRITICALITY ignore EXTENSION E-DCH-RSConfiguration IE PRESENCE optional }|

-- The IE shall be present if E-DPCCH Information IE is present
{ ID id-DPCCH-Information-RL-SetupReqFDD CRITICALITY reject EXTENSION DPCCH-Information-RL-SetupReqFDD PRESENCE optional }|
{ ID id-E-DCH-Information-RL-SetupReqFDD CRITICALITY reject EXTENSION E-DCH-Information-RL-SetupReqFDD PRESENCE optional }|
{ ID id-F-DCH-Information-RL-SetupReqFDD CRITICALITY reject EXTENSION F-DCH-Information-RL-SetupReqFDD PRESENCE optional }|
{ ID id-E-DCH-RSChannelisationCodeLength CRITICALITY ignore EXTENSION E-DCH-RSChannelisationCodeLength PRESENCE optional }|
{ ID id-E-DCH-RSConfiguration IE CRITICALITY ignore EXTENSION E-DCH-RSConfiguration IE PRESENCE optional }|

Additional-HS-Cell-Information-RL-Setup-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Setup-ItemIEs

Additional-HS-Cell-Information-RL-Setup-ItemIEs ::=SEQUENCE{
  hSPDSCH-RS-RS-ID RL-ID,
  hSPDSCH-RS-C-ID C-ID,
  hSPDSCH-RS-Secondary-Serving-Information HS-DSCH-FDD-Secondary-Serving-Information,
  iE-Extensions ProtocolExtensionContainer { { Additional-HS-Cell-Information-RL-Setup-ItemIEs-ExtIEs} } OPTIONAL,
}

Additional-HS-Cell-Information-RL-Setup-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}

UL-DPCCH-Information-RL-SetupReqFDD ::= SEQUENCE {
  ul-ScramblingCode UL-ScramblingCode,
  minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
  maxNROfUL-DPCCHs MaxNROfUL-DPCCHs OPTIONAL,
  -- This IE shall be present if Min UL Channelisation Code length IE is set to 4 --
  ul-PunctureLimit PunctureLimit,
  tFCS TFCS,
  ul-DPCCH-SlotFormat UL-DPCCH-SlotFormat,
  ul-SIR-Target UL-SIR,
  diversityMode DiversityMode,
  not-Used-sSDT-CellID-Length NULL OPTIONAL,
  not-Used-s-FieldLength NULL OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCCH-Information-RL-SetupReqFDD-ExtIEs} } OPTIONAL,
}
UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DPC-Mode CRITICALITY reject EXTENSION DPC-Mode PRESENCE optional },
    { ID id-UL-DPDCCH-Indicator-For-E-DCH-Operation CRITICALITY reject EXTENSION UL-DPDCCH-Indicator-For-E-DCH-Operation PRESENCE optional },
    ...
}

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    tFCS TCFS,
    dl-DPCH-SlotFormat DL-DPCH-SlotFormat,
    tFCI-SignallingMode TFCI-SignallingMode,
    tFCI-Presence TFCI-Presence OPTIONAL,
    -- this IR shall be present if the DL DPCH slot format IE is set to any of the values from 12 to 16 --
    multiplexingPosition MultiplexingPosition,
    not-Used-pDSCH-RL-ID NULL OPTIONAL,
    not-Used-pDSCH-CodeMapping NULL OPTIONAL,
    powerOffsetInformation PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease LimitedPowerIncrease,
    innerLoopDLPCStatus InnerLoopDLPCStatus,
    iE-Extensions ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE {
    pO1-ForTFCI-Bits PowerOffset,
    pO2-ForTPC-Bits PowerOffset,
    pO3-ForPilotBits PowerOffset,
    iE-Extensions ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE { SIZE (1..maxNrOfRLs) } OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-SetupRqstFDD}}

RL-InformationItemIE-RL-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationItem-RL-SetupRqstFDD PRESENCE mandatory };
}

RL-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    rL-ID RL-ID,
    c-ID C-ID,
    firstRLS-indicator FirstRLS-Indicator,
    frameOffset FrameOffset,
chipOffset       ChipOffset, OPTIONAL,
propagationDelay PropagationDelayOPTIONAL,
diversityControlField DiversityControlField OPTIONAL,
  -- This IE shall be present if the RL is not the first one in the RL Information IE
dl-CodeInformation FDD-DL-CodeInformation,
initialDL-transmissionPower DL-Power,
maximumDL-power DL-Power,
minimumDL-power DL-Power,
not-Used-sSDT-Cell-Identity NULL OPTIONAL,
transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
  -- This IE shall be present if Diversity Mode IE in UL DPCH Information group is not set to 'none'
iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...

RL-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info
    PRESENCE optional }|
  { ID id-DelayedActivation CRITICALITY reject EXTENSION DelayedActivation
    PRESENCE optional }|
  { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation
    PRESENCE optional }|
  { ID id-Secondary-CPICH-Information CRITICALITY ignore EXTENSION CommonPhysicalChannelID
    PRESENCE optional }|
  { ID id-E-DCH-RL-Indication CRITICALITY reject EXTENSION E-DCH-RL-Indication
    PRESENCE optional }|
  { ID id-RL-Specific-E-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info
    PRESENCE optional }|
  { ID id-SynchronisationIndicator CRITICALITY ignore EXTENSION SynchronisationIndicator
    PRESENCE optional }|
  { ID id-ExtendedPropagationDelay CRITICALITY ignore EXTENSION ExtendedPropagationDelay
    PRESENCE optional }|
  { ID id-F-DPCH-SlotFormat CRITICALITY reject EXTENSION F-DPCH-SlotFormat
    PRESENCE optional }|
  { ID id-HSDSCH-PreconfigurationSetup CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationSetup
    PRESENCE optional }|
  { ID id-E-RNTI CRITICALITY ignore EXTENSION E-RNTI
    PRESENCE optional }|
  { ID id-Non-Serving-RL-Preconfig-Setup CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup
    PRESENCE optional }, ...
}

E-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
  maxSet-E-DPDCCHs Max-Set-E-DPDCCHs,
  ul-PunctureLimit PunctureLimit,
  e-TFCS-Information E-TFCS-Information,
  e-TTI E-TTI,
  e-DPDCCH-PO E-DPDCCH-PO,
  e-RGCH-2-IndexStepThreshold E-RGCH-2-IndexStepThreshold,
  e-RGCH-3-IndexStepThreshold E-RGCH-3-IndexStepThreshold,
  hARQ-Info-for-E-DCH HARQ-Info-for-E-DCH,
  hSDDSCH-Configured-Indicator HSDSCH-Configured-Indicator,
iE-Extensions ProtocolExtensionContainer { { E-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
E-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-RNTI CRITICALITY reject EXTENSION E-RNTI PRESENCE optional }|
  { ID id-MinimumReducedE-DPCH-GainFactor CRITICALITY ignore EXTENSION MinimumReducedE-DPCH-GainFactor PRESENCE optional },
}

F-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
  powerOffsetInformation PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD,
  fdd-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize,
  limitedPowerIncrease LimitedPowerIncrease,
  innerLoopDLPCStatus InnerLoopDLPCStatus,
  iE-Extensions ProtocolExtensionContainer { { F-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

F-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD ::= SEQUENCE {
  po2-ForTPC-Bits PowerOffset,
  --This IE shall be ignored by Node B
  iE-Extensions ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

PowerOffsetInformation-F-DPCH-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- ************************************************************
-- RADIO LINK SETUP REQUEST TDD
-- ************************************************************

RadioLinkSetupRequestTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkSetupRequestTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupRequestTDD-Extensions}} OPTIONAL,
  ...
}

RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IEs ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY reject TYPE CRNC-CommunicationContextID PRESENCE mandatory }|
  { ID id-UL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional }|
  { ID id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional }|
  { ID id-DCH-TDD-Information CRITICALITY reject TYPE DCH-TDD-Information PRESENCE optional }|
  { ID id-DSCH-TDD-Information CRITICALITY reject TYPE DSCH-TDD-Information PRESENCE optional }||
RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-HSDSCH-TDD-Information CRITICALITY reject EXTENSION HSDSCH-TDD-Information
      PRESENCE optional }|
   { ID id-HSDSCH-RNTI CRITICALITY reject EXTENSION HSDSCH-RNTI
      PRESENCE conditional }|-- The IE shall be present if HS-DSCH Information IE is present
   { ID id-HSPDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID
      PRESENCE conditional }|-- The IE shall be present if HS-DPCCH Information IE is present
   { ID id-PDSCH-RL-ID CRITICALITY ignore EXTENSION RL-ID
      PRESENCE optional }|
   { ID id-E-DCH-Information CRITICALITY reject EXTENSION E-DCH-Information
      PRESENCE optional }|
   { ID id-E-DCH-Serving-RL-ID CRITICALITY reject EXTENSION RL-ID
      PRESENCE optional }|
   { ID id-E-DCH-768-Information CRITICALITY reject EXTENSION E-DCH-768-Information
      PRESENCE optional }|
   { ID id-E-DCH-LCR-ID CRITICALITY reject EXTENSION E-DCH-LCR-ID
      PRESENCE optional }|
   { ID id-PowerControlGAP CRITICALITY ignore EXTENSION ControlGAP
      PRESENCE optional }|-- Applicable to 1.28Mcps TDD only
   { ID id-ContinuousPacketConnectivity-DRX-InformationLCR CRITICALITY reject EXTENSION ContinuousPacketConnectivity-DRX-InformationLCR
      PRESENCE optional }|
   { ID id-HS-DSCH-Semi-PersistentScheduling-Information-RCR CRITICALITY reject EXTENSION HS-DSCH-Semi-PersistentScheduling-Information-RCR
      PRESENCE optional }|
   { ID id-E-DCH-Semi-PersistentScheduling-Information-RCR CRITICALITY reject EXTENSION E-DCH-Semi-PersistentScheduling-Information-RCR
      PRESENCE optional }|
   { ID id-IdleIntervalInformation CRITICALITY ignore EXTENSION IdleIntervalInformation
      PRESENCE optional }|
   { ID id-UE-Selected-MBMS-Service-Information CRITICALITY ignore EXTENSION UE-Selected-MBMS-Service-Information
      PRESENCE optional }|
   { ID id-HSSCC-TPC-StepSize CRITICALITY ignore EXTENSION TDD-TPC-DownlinkStepSize
      PRESENCE optional }|
   { ID id-HS-DSCH-RNTI-For-FACH CRITICALITY ignore EXTENSION HS-DSCH-RNTI
      PRESENCE optional },
   ...
}

UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE {size(1..maxNrOfCCTrCHs)} OF ProtocolIE-Single-Container{{ UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD }}

UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
   { ID id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationItem-RL-SetupRqstTDD
      PRESENCE mandatory },
UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
cCTrCH-ID          CCTrCH-ID,  
tFCS                TFCI-Coding,  
tFCI-Coding        TFCI-Coding,  
punctureLimit      PunctureLimit,  
ul-DPCH-Information UL-DPCH-Information-RL-SetupRqstTDD OPTIONAL,  -- Applicable to 3.84Mcps TDD only  
iE-Extensions       ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL, 
...}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UL-DPCH-LCR-Information-RL-SetupRqstTDD  CRITICALITY reject EXTENSION UL-DPCH-LCR-Information-RL-SetupRqstTDD PRESENCE optional }
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  
  { ID id-UL-SIRTarget        CRITICALITY reject EXTENSION UL-SIR  }  
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.  
  { ID id-UL-DPCH-768-Information-RL-SetupRqstTDD  CRITICALITY reject EXTENSION UL-DPCH-768-Information-RL-SetupRqstTDD PRESENCE optional }
  -- Applicable to 7.68Mcps TDD only } 

UL-DPCH-Information-RL-SetupRqstTDD ::= ProtocolIE-Single-Container{{ UL-DPCH-InformationIE-RL-SetupRqstTDD }}

UL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IIES ::= {
  { ID id-UL-DPCH-InformationList-RL-SetupRqstTDD  CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-SetupRqstTDD PRESENCE mandatory } 
}

UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
  repetitionPeriod  RepetitionPeriod,  
  repetitionLength  RepetitionLength,  
tdd-DPCHOffset    TDD-DPCHOffset,  
uL-Timeslot-Information    UL-Timeslot-Information,  
iE-Extensions       ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL, 
...}

UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

UL-DPCH-LCR-Information-RL-SetupRqstTDD ::= SEQUENCE {
  repetitionPeriod  RepetitionPeriod,  
  repetitionLength  RepetitionLength,  
tdd-DPCHOffset    TDD-DPCHOffset,  
uL-TimeslotLCR-Information    UL-TimeslotLCR-Information,  
iE-Extensions       ProtocolExtensionContainer { { UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL, 
...}

...
UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-RxtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-768-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tdd-DPCHOffset TDD-DPCHOffset,
    uL-Timeslot768-Information UL-Timeslot768-Information,
    iE-Extensions ProtocolExtensionContainer { { UL-DPCH-768-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE {SIZE (1..maxNrOfCCTrCHs)} OF ProtocolIE-Single-Container{ { DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD } }

DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD PRESENCE mandatory }
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID CCTrCH-ID,
    tFCS TFCs,
    tFCl-Coding TFCI-Coding,
    punctureLimit PunctureLimit,
    tdd-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize,
    cCTrCH-TPCList CCTrCH-TPCList-RL-SetupRqstTDD OPTIONAL,
    dL-DPCH-Information DL-DPCH-Information-RL-SetupRqstTDD OPTIONAL, -- Applicable to 3.84Mcps TDD only
    iE-Extensions ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-RxtIEs } } OPTIONAL,
    ...
}

CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE {SIZE (1..maxNrOfCCTrCHs)} OF CCTrCH-TPCItem-RL-SetupRqstTDD

CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID CCTrCH-ID,
    iE-Extensions ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRqstTDD-RxtIEs } } OPTIONAL,
...}

CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


DL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify TYPE DL-DPCH-InformationItem-RL-SetupRqstTDD PRESENCE mandatory }
}

DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tdd-DPCHOffset TDD-DPCHOffset,
    dl-TimeslotInformation DL-TimeslotInformation,
    ie-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-LCR-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tdd-DPCHOffset TDD-DPCHOffset,
    dl-TimeslotLCRInformation DL-TimeslotLCRInformation,
    tstdIndicator TSTD-Indicator,
    ie-Extensions ProtocolExtensionContainer { { DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-768-Information-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tdd-DPCHOffset TDD-DPCHOffset,
    dl-Timeslot768Information DL-Timeslot768Information,
    ie-Extensions ProtocolExtensionContainer { { DL-DPCH-768-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-768-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
RL-Information-RL-SetupRqstTDD ::= SEQUENCE {
  rL-ID         RL-ID,
  c-ID         C-ID,
  frameOffset    FrameOffset,
  specialBurstScheduling  SpecialBurstScheduling,
  initialDL-transmissionPower  DL-Power,
  maximumDL-power        DL-Power,
  minimumDL-power        DL-Power,
  dL-TimeSlotISCPInfo   DL-TimeSlotISCPInfo OPTIONAL,  -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
  iE-Extensions ProtocolExtensionContainer { { RL-Information-RL-SetupRqstTDD-ExtIEs} }  OPTIONAL,
  ...
}

RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { RL-Information-RL-SetupRqstTDD-ExtIEs} }

RadioLinkSetupResponseFDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{RadioLinkSetupResponseFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}  OPTIONAL,
  ...
}

RadioLinkSetupResponseFDD-IEs NBAP-PROTOCOL-IES ::= { { RadioLinkSetupResponseFDD-IEs} }

RadioLinkSetupResponseFDD-IBs NBAP-PROTOCOL-IBS ::= { { RadioLinkSetupResponseFDD-IBs} }
RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= 
{ ID id-HSDSCH-FDD-Information-Response  CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response
  PRESENCE optional } | 
{ ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response  CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Information-Response
  PRESENCE optional } | 
{ ID id-Additional-HS-Cell-Information-Response  CRITICALITY ignore EXTENSION Additional-HS-Cell-Information-Response-List
  PRESENCE optional } | 
{ ID id-Additional-EDCH-Cell-Information-Response  CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-List
  PRESENCE optional }, ...

Additional-HS-Cell-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-Response-ItemIEs

Additional-HS-Cell-Information-Response-ItemIEs ::= SEQUENCE{
  hSPDSCH-RU-ID          RL-ID,
  hS-DSCH-FDD-Secondary-Serving-Information-Response HS-DSCH-FDD-Secondary-Serving-Information-Response,
  iE-Extensions     ProtocolExtensionContainer { { Additional-HS-Cell-Information-Response-ItemIEs-ExtIEs} } OPTIONAL,
  ...
}

Additional-HS-Cell-Information-Response-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= 
{ ID id-DL-PowerBalancing-ActivationIndicator  CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator
  PRESENCE optional } | 
{ ID id-E-DCH-RL-Set-ID            CRITICALITY ignore EXTENSION RL-Set-ID
  PRESENCE optional } | 
{ ID id-E-DCH-FDD-DL-Control-Channel-Information CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional } | 
{ ID id-Initial-DL-DPCH-TimingAdjustment CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment
  PRESENCE optional } |
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
  combining               Combining-RL-SetupRspFDD,
  nonCombiningOrFirstRL      NonCombiningOrFirstRL-RL-SetupRspFDD
}

Combining-RL-SetupRspFDD ::= SEQUENCE {
  rl-ID          RL-ID,
  iE-Extensions        ProtocolExtensionContainer { { Combining-RL-SetupRspFDD-ExtIEs} }  OPTIONAL,
  ...
}

NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE {
  dCH-InformationResponse      DCH-InformationResponse,
  iE-Extensions        ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs} }  OPTIONAL,
  ...
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-DCH-FDD-Information-Response  CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response  PRESENCE optional },
  ...

-- ************************************************************
-- RADIO LINK SETUP RESPONSE TDD
-- ************************************************************

RadioLinkSetupResponseTDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{RadioLinkSetupResponseTDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}}  OPTIONAL,
  ...
}

RadioLinkSetupResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID    CRITICALITY ignore TYPE CRNC-CommunicationContextID    PRESENCE mandatory },
  { ID id-NodeB-CommunicationContextID   CRITICALITY ignore TYPE NodeB-CommunicationContextID    PRESENCE mandatory },
  { ID id-CommunicationControlPortID    CRITICALITY ignore TYPE CommunicationControlPortID    PRESENCE mandatory },
}
{ ID id-RL-InformationResponse-RL-SetupRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-SetupRspTDD PRESENCE optional } | -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }
...

RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-RL-InformationResponse-LCR-RL-SetupRspTDD CRITICALITY ignore EXTENSION RL-InformationResponse-LCR-RL-SetupRspTDD PRESENCE optional } | -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
  { ID id-HSDSCH-TDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response PRESENCE optional } |
  { ID id-E-DCH-Information-Response CRITICALITY ignore EXTENSION E-DCH-Information-Response PRESENCE optional } |
  { ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-Information-ResponseLCR PRESENCE optional } |
  { ID id-HS-DCH-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION HS-DCH-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optional } |
  { ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION E-DCH-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optional } |
  { ID id-E-RNTI-For-FACH CRITICALITY ignore EXTENSION E-RNTI PRESENCE optional } |
...

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
  rl-ID RL-ID,
  ul-TimeSlot-ISCP-Info UL-TimeSlot-ISCP-Info,
  ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation,
  dCH-InformationResponseList DCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
  dSCH-InformationResponseList DSCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
  usCH-InformationResponseList USCH-InformationResponseList-RL-SetupRspTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer ( { RL-InformationResponseList-RL-SetupRspTDD-ExtIEs } ) OPTIONAL,
...

RL-InformationResponseList-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

DCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory } |
  { ID id-DCH-InformationResponse-LCR DCH-InformationResponse-LCR } |
  { ID id-HSDSCH-I-Information-Response CRITICALITY ignore EXTENSION HSDSCH-I-Information-Response PRESENCE optional } |
  { ID id-HS-DCH-I-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION HS-DCH-I-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optional } |
  { ID id-E-DCH-I-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION E-DCH-I-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optional } |
  { ID id-HS-DSCH-I-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION HS-DSCH-I-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optional } |
  { ID id-E-RNTI-For-FACH CRITICALITY ignore EXTENSION E-RNTI PRESENCE optional } |
...

DSCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DSCCH-I-Information-Response CRITICALITY ignore TYPE DSCCH-I-InformationResponse PRESENCE mandatory } |
  { ID id-DSCCH-I-InformationResponse-LCR DSCCH-I-InformationResponse-LCR } |
  { ID id-HS-DHCH-I-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION HS-DHCH-I-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optional } |
  { ID id-E-DHCH-I-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION E-DHCH-I-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optional } |
  { ID id-HS-DSCH-I-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION HS-DSCH-I-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optional } |
  { ID id-E-RNTI-For-FACH CRITICALITY ignore EXTENSION E-RNTI PRESENCE optional } |
...

RadioLinkSetupFailureFDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{RadioLinkSetupFailureFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}} OPTIONAL,
  ...
}

RadioLinkSetupFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID   CRITICALITY ignore TYPE CRNC-CommunicationContextID  PRESENCE mandatory }|
  { ID id-NodeB-CommunicationContextID  CRITICALITY ignore TYPE NodeB-CommunicationContextID  PRESENCE conditional }|
  -- This IE shall be present if at least one of the radio links has been successfully set up
  { ID id-CommunicationControlPortID    CRITICALITY ignore TYPE CommunicationControlPortID  PRESENCE optional }|
  { ID id-CauseLevel-RL-SetupFailureFDD  CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureFDD  PRESENCE mandatory }|
  { ID id-CriticalityDiagnostics    CRITICALITY ignore TYPE CriticalityDiagnostics   PRESENCE optional },
  ...
}

RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CauseLevel-RL-SetupFailureFDD ::= CHOICE {
  generalCause    GeneralCauseList-RL-SetupFailureFDD,
  rlSpecificCause    RLSpecificCauseList-RL-SetupFailureFDD,
  ...
}

GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE {
cause,                  
  Role,                  
P;                 
  ProtocolIE-Single-Container { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,  
  ...                      
}

GeneralCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...                      
}

RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE {
  unsuccessful-RL-InformationRespList-RL-SetupFailureFDD   Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,
  successful-RL-InformationRespList-RL-SetupFailureFDD     Successful-RL-InformationRespList-RL-SetupFailureFDD OPTIONAL,
  iE-Extensions   ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL, 
  ...                      
}

RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-HS-DCH-FDD-Information-Response  CRITICALITY ignore  EXTENSION HSDSCH-FDD-Information-Response   PRESENCE optional }|
  { ID id-ContinuousPacketConnectivity-HS-SCH-less-Information-Response  CRITICALITY ignore  EXTENSION  ContinuousPacketConnectivityHS-SCH-less-Information-Response   PRESENCE optional }|
  { ID id-Additional-HS-Cell-Information-Response  CRITICALITY ignore EXTENSION  Additional-HS-Cell-Information-Response-List   PRESENCE optional},
  ...                      
}

Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { { Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD } }

Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD  CRITICALITY ignore  TYPE Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD PRESENCE mandatory } 
}

Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { { Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD } }

Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { { Successful-RL-InformationRespItemIE-RL-SetupFailureFDD } }

Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Successful-RL-InformationRespItem-RL-SetupFailureFDD CRITICALITY ignore TYPE Successful-RL-InformationRespItem-RL-SetupFailureFDD PRESENCE mandatory } 
}
Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
  rL-ID               RL-ID,
  rL-Set-ID           RL-Set-ID,
  received-total-wide-band-power   Received-total-wide-band-power-Value,
  diversityIndication DiversityIndication-RL-SetupFailureFDD,
  not-Used-dSCH-InformationResponseList NULL OPTIONAL,
  not-Used-ePCI2-BearerInformationResponse NULL OPTIONAL,
  SSDT-SupportIndicator SSDT-SupportIndicator,
  iE-Extensions       ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } }
OPTIONAL,
...
}

Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-PowerBalancing-ActivationIndicator  CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator PRESENCE optional }|
  { ID id-E-DCH-RL-Set-ID        CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional }|
  { ID id-E-DCH-FDD-DL-Control-Channel-Information CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }|
  { ID id-Initial-DL-DPCH-TimingAdjustment CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional }|
  { ID id-HSDSCH-PreconfigurationInfo CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo PRESENCE optional }|
  { ID id-Non-Serving-RL-Preconfig-Info CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info PRESENCE optional }
...
}

DiversityIndication-RL-SetupFailureFDD ::= CHOICE {
  combining     Combining-RL-SetupFailureFDD,
  nonCombiningOrFirstRL NonCombiningOrFirstRL-RL-SetupFailureFDD
}

Combining-RL-SetupFailureFDD ::= SEQUENCE {
  rL-ID               RL-ID,
  iE-Extensions       ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } }
OPTIONAL,
...
}

CombiningItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE {
  dCH-InformationResponse DCH-InformationResponse,
  iE-Extensions       ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } }
OPTIONAL,
...
}

NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-DCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response PRESENCE optional },
...
--- ****************************************************
--- RADIO LINK SETUP FAILURE TDD
--- ****************************************************

RadioLinkSetupFailureTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkSetupFailureTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupFailureTDD-Extensions}} OPTIONAL,
...
}

RadioLinkSetupFailureTDD-IEs NBAP-PROTOCOL-IEs ::= {
  { ID id-CRNC-CommunicationContextID       CRITICALITY ignore TYPE CRNC-CommunicationContextID    PRESENCE mandatory } |
  { ID id-CauseLevel-RL-SetupFailureTDD     CRITICALITY ignore TYPE CauseLevel-RL-SetupFailureTDD     PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics            CRITICALITY ignore TYPE CriticalityDiagnostics            PRESENCE optional },
...
}

RadioLinkSetupFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

CauseLevel-RL-SetupFailureTDD ::= CHOICE {
  generalCause GeneralCauseList-RL-SetupFailureTDD,
  rLSpecificCause RLSpecificCauseList-RL-SetupFailureTDD,
...
}

GeneralCauseList-RL-SetupFailureTDD ::= SEQUENCE {
  cause Cause,
  iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureTDD-ExtIEs} } OPTIONAL,
...
}

GeneralCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

RLSpecificCauseList-RL-SetupFailureTDD ::= SEQUENCE {
  unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD Unsuccessful-RL-InformationRespItem-RL-SetupFailureTDD,
  iE-Extensions ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs} } OPTIONAL,
...
}

RLSpecificCauseItem-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}


ETSI
Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationResp-RL-SetupFailureTDD PRESENCE mandatory }
}

Unsuccessful-RL-InformationResp-RL-SetupFailureTDD ::= SEQUENCE {
  rL-ID        RL-ID,
  cause        Cause,
  iE-Extensions ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs} } OPTIONAL,
  ...}

Unsuccessful-RL-InformationResp-RL-SetupFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

-- ******************************************************
-- RADIO LINK ADDITION REQUEST FDD
-- ******************************************************

RadioLinkAdditionRequestFDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{RadioLinkAdditionRequestFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}   OPTIONAL,
  ...
}

RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory }
  | { ID id-Compressed-Mode-Deactivation-Flag CRITICALITY reject TYPE Compressed-Mode-Deactivation-Flag PRESENCE optional }|
  { ID id-RL-InformationList-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-AdditionRqstFDD PRESENCE mandatory },
  ...}

RadioLinkAdditionRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Initial-DL-DPCH-TimingAdjustment-Allowed CRITICALITY ignore EXTENSION Initial-DL-DPCH-TimingAdjustment-Allowed PRESENCE optional }|
  { ID id-Serving-E-DCH-RL-ID CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID }
  | { ID id-Serving-Cell-Change-CFN CRITICALITY reject EXTENSION CFN PRESENCE optional }|
  { ID id-HS-DSCH-Serving-Cell-Change-Info CRITICALITY reject EXTENSION HS-DSCH-Serving-Cell-Change-Info PRESENCE optional }|
  { ID id-E-DPCH-Information-RL-AdditionReqFDD CRITICALITY reject EXTENSION E-DPCH-Information-RL-AdditionReqFDD PRESENCE optional }|
  { ID id-E-DCH-FDD-Information CRITICALITY reject EXTENSION E-DCH-FDD-Information PRESENCE conditional }|
  -- This IE shall be present if E-DPCH Information is present
  { ID id-Additional-HS-Cell-Information-RL-Addition CRITICALITY reject EXTENSION Additional-HS-Cell-Information-RL-Addition-List PRESENCE optional }|

ETS
Additional-HS-Cell-Information-RL-Addition-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Addition-ItemIEs

Additional-EDCH-Cell-Information-RL-Add-Req ::= SEQUENCE{
  setup-Or-Addition-Of-EDCH-On-secondary-UL-Frequency       Setup-Or-Addition-Of-EDCH-On-secondary-UL-Frequency,
  iE-Extensions     ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-RL-Add-Req-ExtIEs} } OPTIONAL,
  ... }
minimumDL-Power
not-Used-sSDT-CellIdentity
transmitDiversityIndicator
iE-Extensions

DL-Power
NULL
ProtocolExtensionContainer

OPTIONAL,
OPTIONAL,
OPTIONAL,

Optional,

...
RadioLinkAdditionRequestTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {RadioLinkAdditionRequestTDD-IEs},
  protocolExtensions ProtocolExtensionContainer {RadioLinkAdditionRequestTDD-Extensions} OPTIONAL,
  ...
}

RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IEs ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory }|
  { ID id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD CRITICALITY reject TYPE UL-CCTrCH-InformationList-RL-AdditionRqstTDD PRESENCE optional }|
  { ID id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD CRITICALITY reject TYPE DL-CCTrCH-InformationList-RL-AdditionRqstTDD PRESENCE optional }|
  { ID id-RL-Information-RL-AdditionRqstTDD CRITICALITY reject TYPE RL-Information-RL-AdditionRqstTDD PRESENCE mandatory },
  ...
}

RadioLinkAdditionRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-HSDSCH-TDD-Information CRITICALITY reject EXTENSION HSDSCH-TDD-Information PRESENCE optional }|
  { ID id-HSDSCH-RNTI CRITICALITY reject EXTENSION HSDSCH-RNTI PRESENCE conditional }|
  -- The IE shall be present if HS-PDSCH RL ID IE is present.
  { ID id-HS-PDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }|
  { ID id-E-DCH-Information CRITICALITY reject EXTENSION E-DCH-Information PRESENCE optional }|
  { ID id-E-DCH-Serving-RL-ID CRITICALITY reject EXTENSION RL-ID PRESENCE optional }|
  { ID id-E-DCH-768-Information CRITICALITY reject EXTENSION E-DCH-768-Information PRESENCE optional }|
  { ID id-E-DCH-LCR-Information CRITICALITY reject EXTENSION E-DCH-LCR-Information PRESENCE optional }|
  { ID id-PowerControlGAP CRITICALITY ignore EXTENSION ControlGAP PRESENCE optional }|
  -- Applicable to 1.28Mcps TDD only
  { ID id-ContinuousPacketConnectivity-DRX-InformationLCR CRITICALITY reject EXTENSION ContinuousPacketConnectivity-DRX-InformationLCR PRESENCE optional }|
  { ID id-HS-DSCH-Semi-PersistentScheduling-Information-LCR CRITICALITY reject EXTENSION HS-DSCH-Semi-PersistentScheduling-Information-LCR PRESENCE optional }|
  { ID id-E-DCH-Semi-PersistentScheduling-Information-LCR CRITICALITY reject EXTENSION E-DCH-Semi-PersistentScheduling-Information-LCR PRESENCE optional }|
  { ID id-DCH-MeasurementOccasion-Information CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information PRESENCE optional }|
  { ID id-U-Selected-MBMS-Service-Information CRITICALITY ignore EXTENSION UE-Selected-MBMS-Service-Information PRESENCE optional }|
  { ID id-HSSCCH-TPC-StepSize CRITICALITY ignore EXTENSION TDD-TPC-DownlinkStepSize PRESENCE optional }|
  { ID id-DPCCH-Information CRITICALITY reject EXTENSION DPCCH-Information PRESENCE optional },
  ...
}

UL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTRCHs)) OF UL-CCTrCH-InformationItem-RL-AdditionRqstTDD

UL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
  cCTRCH-ID CCTRCH-ID,
  ul-DPCH-Information UL-DPCH-InformationList-RL-AdditionRqstTDD OPTIONAL, -- Applicable to 3.84cps TDD only
iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL, ...

UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD CRITICALITY notify EXTENSION UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD PRESENCE optional }, -- Applicable to 1.28cps TDD only
{ ID id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional }, -- Applicable to 1.28cps TDD only
{ ID id-UL-DPCH-InformationItem-768-RL-AdditionRqstTDD CRITICALITY notify EXTENSION UL-DPCH-InformationItem-768-RL-AdditionRqstTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only ...


UL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
{ ID id-UL-DPCH-InformationItem-RL-AdditionRqstTDD CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-AdditionRqstTDD PRESENCE optional }, -- For 3.84Mcps TDD only

UL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
repetitionPeriod RepetitionPeriod,
repetitionLength RepetitionLength,
tdd-DPCHOffset TDD-DPCHOffset,
ul-Timeslot-Information UL-Timeslot-Information,
iE-Extensions ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
...

UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
repetitionPeriod RepetitionPeriod,
repetitionLength RepetitionLength,
tdd-DPCHOffset TDD-DPCHOffset,
ul-TimeslotLCR-Information UL-TimeslotLCR-Information,
iE-Extensions ProtocolExtensionContainer { { UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
...

UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

UL-DPCH-InformationItem-768-RL-AdditionRqstTDD ::= SEQUENCE {
repetitionPeriod RepetitionPeriod,
repetitionLength RepetitionLength,
tdd-DPCHOffset TDD-DPCHOffset,
ul-Timeslot768-Information UL-Timeslot768-Information,
iE-Extensions ProtocolExtensionContainer { { UL-DPCH-InformationItem-768-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL, ...

UL-DPCH-InformationItem-768-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-AdditionRqstTDD

DL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
cCCTrCH-ID CCTrCH-ID,
dl-DPCH-Information DL-DPCH-InformationList-RL-AdditionRqstTDD OPTIONAL, -- Applicable to 3.84Mcps TDD only
iE-Extensions ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL, ...

DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD CRITICALITY notify EXTENSION DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD PRESENCE optional }, -- Applicable to 1.28Mcps TDD only
  { ID id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD CRITICALITY reject EXTENSION DL-Power PRESENCE optional }|
  { ID id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional }|
  { ID id-DL-DPCH-InformationItem-768-RL-AdditionRqstTDD CRITICALITY notify EXTENSION DL-DPCH-InformationItem-768-RL-AdditionRqstTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only
  ...
}


DL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationItem-RL-AdditionRqstTDD CRITICALITY notify TYPE DL-DPCH-InformationItem-RL-AdditionRqstTDD PRESENCE mandatory } }

DL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
tdd-DPCHOffset TDD-DPCHOffset,
dl-Timeslot-Information DL-Timeslot-Information,
iE-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod,
  repetitionLength      RepetitionLength,
  tdd-DPCHOffset        TDD-DPCHOffset,
  dl-TimeslotLCR-Information       DL-TimeslotLCR-Information,
  iE-Extensions       ProtocolExtensionContainer { { DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-InformationItem-768-RL-AdditionRqstTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod,
  repetitionLength      RepetitionLength,
  tdd-DPCHOffset        TDD-DPCHOffset,
  dl-Timeslot768-Information       DL-Timeslot768-Information,
  iE-Extensions       ProtocolExtensionContainer { { DL-DPCH-InformationItem-768-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationItem-768-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Information-RL-AdditionRqstTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  c-ID          C-ID,
  frameOffset    FrameOffset,
  diversityControlField    DiversityControlField,
  initial-DL-Transmission-Power    DL-Power OPTIONAL,
  maximumDL-Power        DL-Power OPTIONAL,
  minimumDL-Power        DL-Power OPTIONAL,
  dl-TimeslotISCPInfo    DL-TimeslotISCPInfo OPTIONAL,  -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only
  iE-Extensions        ProtocolExtensionContainer { { RL-information-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

RL-information-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD CRITICALITY reject EXTENSION DL-TimeslotISCPInfoLCR PRESENCE optional }|-- Applicable to 1.28Mcps TDD only
  { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional }|--
  { ID id-DelayedActivation CRITICALITY reject EXTENSION DelayedActivation PRESENCE optional }|--
  { ID id-UL-Synchronisation-Parameters-LCR CRITICALITY reject EXTENSION UL-Synchronisation-Parameters-LCR PRESENCE optional }|-- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
  { ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional },
  -- Mandatory for 1.28Mcps TDD when using multiple frequencies

ETSI
RadioLinkAdditionResponseFDD ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{RadioLinkAdditionResponseFDD-IEs}},
    protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}   OPTIONAL,
    ...
}

RadioLinkAdditionResponseFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID      CRITICALITY ignore TYPE CRNC-CommunicationContextID
      PRESENCE mandatory }|
      PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics       CRITICALITY ignore TYPE CriticalityDiagnostics
      PRESENCE optional },
    ...
}

RadioLinkAdditionResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-HS-DSCH-Serving-Cell-Change-Info-Response CPURTICALITY ignore EXTENSION HS-DSCH-Serving-Cell-Change-Info-Response
      PRESENCE optional }|
    { ID id-E-DCH-Serving-Cell-Change-Info-Response CRITICALITY ignore EXTENSION E-DCH-Serving-Cell-Change-Info-Response
      PRESENCE optional }|
    { ID id-MAChs-ResetIndicator       CRITICALITY ignore EXTENSION MAChs-ResetIndicator
      PRESENCE optional }|
    { ID id-Additional-HS-Cell-Change-Information-Response CRITICALITY ignore EXTENSION Additional-HS-Cell-Change-Information-Response-List
      PRESENCE optional }|
      PRESENCE optional },
    ...
}

Additional-HS-Cell-Change-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Change-Information-Response-ItemIEs

Additional-HS-Cell-Change-Information-Response-ItemIEs ::=SEQUENCE{
    hSPDSCH-RL-ID            RL-ID,
    hDSCH-Secondary-Serving-Cell-Change-Information-Response LS-DSCH-Secondary-Serving-Cell-Change-Information-Response,
    iE-Extensions     ProtocolExtensionContainer { { Additional-HS-Cell-Change-Information-Response-ItemIEs-ExtIEs } } OPTIONAL,
    ...
}

Additional-HS-Cell-Change-Information-Response-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-AdditionRspFDD }}

RL-InformationResponseItemIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItem-RL-AdditionRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-AdditionRspFDD PRESENCE mandatory }
}

RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
  rL-ID        RL-ID,
  rL-Set-ID       RL-Set-ID,
  received-total-wide-band-power  Received-total-wide-band-power-Value,
  diversityIndication DiveristyIndication-RL-AdditionRspFDD,
  sSDT-SupportIndicator SSDT-SupportIndicator,
  iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} }  OPTIONAL,
  ...
}

RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator PRESENCE optional }|
  { ID id-E-DCH-RL-Set-ID CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional }|
  { ID id-E-DCH-FDD-DL-Control-Channel-Information CRITICALITY ignore EXTENSION E-DCH-FDD-Controller-Channel-Information PRESENCE optional }|
  { ID id-Initial-DL-DPCH-TimingAdjustment CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional }|
  { ID id-HSDSCH-PreconfigurationInfo CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo PRESENCE optional }|
  { ID id-Non-Serving-RL-Preconfig-Info CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info PRESENCE optional }|
  ...
}

DiversityIndication-RL-AdditionRspFDD ::= CHOICE { combining Combining-RL-AdditionRspFDD,
  non-combining Non-Combining-RL-AdditionRspFDD }

Combining-RL-AdditionRspFDD ::= SEQUENCE {
  rL-ID        RL-ID,
  iE-Extensions ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs} }  OPTIONAL,
  ...
}

CombiningItem-RL-AdditionRspFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-DCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response PRESENCE optional },
  ...
}

Non-Combining-RL-AdditionRspFDD ::= SEQUENCE {
  dCH-InformationResponse DCH-InformationResponse,
  iE-Extensions ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspFDD-ExtIEs} }  OPTIONAL,
  ...
}
RadioLinkAdditionResponseTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkAdditionResponseTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}  OPTIONAL,
  ...
}

RadioLinkAdditionResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID     CRITICALITY ignore TYPE CRNC-CommunicationContextID    PRESENCE mandatory }|
  { ID id-RL-InformationResponse-RL-AdditionRspTDD CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD  PRESENCE optional }|  -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics  PRESENCE optional },
  ...
}

RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-RL-InformationResponse-LCR-RL-AdditionRspTDD CRITICALITY ignore TYPE RL-InformationResponse-LCR-RL-AdditionRspTDD  PRESENCE optional }|-- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
  { ID id-HSDSCH-TDD-Information-Response CRITICALITY ignore TYPE HSDSCH-TDD-Information-Response  PRESENCE optional },
  { ID id-E-DCH-Information-Response CRITICALITY ignore TYPE E-DCH-Information-Response  PRESENCE optional },
  { ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCP CRITICALITY ignore TYPE ContinuousPacketConnectivity-DRX-Information-ResponseLCP  PRESENCE optional },
  { ID id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCP CRITICALITY ignore TYPE HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCP  PRESENCE optional },
  { ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCP CRITICALITY ignore TYPE E-DCH-Semi-PersistentScheduling-Information-ResponseLCP  PRESENCE optional },
  ...
}

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
  rl-ID RL-ID,
  ul-TimeSlot-ISCP-Info UL-TimeSlot-ISCP-Info,
  ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation,
  dCH-Information DCH-Information-RL-AdditionRspTDD OPTIONAL,
  dSCH-InformationResponseList DSCH-InformationResponseList-RL-AdditionRspTDD OPTIONAL,
  ...
}
uSCH-InformationResponseList  USCH-InformationResponseList-RL-AdditionRspTDD

OPTIONAL,
iE-Extensions  ProtocolExtensionContainer { { RL-InformationResponse-RL-AdditionRspTDD-ExtIEs} }

OPTIONAL,
...

RL-InformationResponse-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

...
}

DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
  diversityIndication  DiversityIndication-RL-AdditionRspTDD,
iE-Extensions  ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,

...
}

DCH-Information-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

...
}

DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
  combining  Combining-RL-AdditionRspTDD, -- Indicates whether the old Transport Bearer shall be reused or not
  non-Combining  Non-Combining-RL-AdditionRspTDD
}

Combining-RL-AdditionRspTDD ::= SEQUENCE {
  rL-ID          RL-ID, -- Reference RL
  iE-Extensions  ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,

...
}

CombiningItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

...
}

Non-Combining-RL-AdditionRspTDD ::= SEQUENCE {
  dCH-InformationResponse  DCH-InformationResponse,
iE-Extensions  ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,

...
}

Non-CombiningItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

...
}


DSCH-InformationResponseListIEs-RL-AdditionRspTDD  NBAP-PROTOCOL-IES ::= {

  { ID id-DSCH-InformationResponse  CRITICALITY ignore  TYPE DSCH-InformationResponse  PRESENCE mandatory }

}

USCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse PRESENCE mandatory }
}

RL-InformationResponse-LCR-RL-AdditionRspTDD ::= SEQUENCE {
  RL-ID        RL-ID,
  uL-TimeSlot-ISCP-InfoLCR UL-TimeSlot-ISCP-InfoLCR,
  ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation,
  dCH-Information DCH-Information-RL-AdditionRspTDD OPTIONAL,
  dSCH-InformationResponseList DSCH-InformationResponseList-RL-AdditionRspTDD OPTIONAL,
  uSCH-InformationResponseList USCH-InformationResponseList-RL-AdditionRspTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ RL-InformationResponse-LCR-RL-AdditionRspTDD-ExtIEs }} OPTIONAL,
...
}

RL-InformationResponse-LCR-RL-AdditionRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- ************************************************************
-- RADIO LINK ADDITION FAILURE FDD
-- ************************************************************

RadioLinkAdditionFailureFDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container {{RadioLinkAdditionFailureFDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}} OPTIONAL,
...
}

RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory },
  { ID id-CauseLevel-RL-AdditionFailureFDD CRITICALITY ignore TYPE CauseLevel-RL-AdditionFailureFDD PRESENCE mandatory },
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
...
}

RadioLinkAdditionFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-DCH-Serving-Cell-Change-Info-Response CRITICALITY ignore EXTENSION E-DCH-Serving-Cell-Change-Info-Response PRESENCE optional },
  { ID id-Additional-HS-Cell-Change-Information-Response CRITICALITY ignore EXTENSION Additional-HS-Cell-Change-Information-Response-List PRESENCE optional },
  { ID id-MACHs-ResetIndicator CRITICALITY ignore EXTENSION MACHs-ResetIndicator PRESENCE optional },
...
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
  generalCause  GeneralCauseList-RL-AdditionFailureFDD,
  rLSpecificCause  RLSpecificCauseList-RL-AdditionFailureFDD,
  ...}

GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
  cause          Cause,
  iE-Extensions        ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs} }   OPTIONAL,
  ...}

GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...}

RLSpecificCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
  unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD  Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,
  successful-RL-InformationRespList-RL-AdditionFailureFDD   Successful-RL-InformationRespList-RL-AdditionFailureFDD   OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs} }   OPTIONAL,
  ...}

RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...}


Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IBS ::= {
  { ID id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD   PRESENCE mandatory }
}

Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID      RL-ID,
  cause      Cause,
  iE-Extensions        ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD-ExtIEs} }   OPTIONAL,
  ...}

Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...}

Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IRS ::= {
   { ID id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD CRITICALITY ignore TYPE Successful-RL-InformationRespItem-RL-AdditionFailureFDD PRESENCE mandatory }
}

Successful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
   rL-ID          RL-ID,
   rL-Set-ID         RL-Set-ID,
   received-total-wide-band-power    Received-total-wide-band-power-Value,
   diversityIndication       DiversityIndication-RL-AdditionFailureFDD,
   sSDT-SupportIndicator      SSDT-SupportIndicator,
   iE-Extensions        ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs} }
   OPTIONAL,
   ...
}

Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-ActivationIndicator PRESENCE optional }|
   { ID id-E-DCH-RL-Set-ID        CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional }|
   { ID id-E-DCH-FDD-DL-Control-Channel-Information CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }|
   { ID id-Initial-DL-DPCH-TimingAdjustment CRITICALITY ignore EXTENSION DL-DPCH-TimingAdjustment PRESENCE optional }|
   { ID id-HSDSCH-PreconfigurationInfo CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo PRESENCE optional }|
   { ID id-Non-Serving-RL-Preconfig-Info CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info PRESENCE optional },
   ...
}

DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
   combining  Combining-RL-AdditionFailureFDD,
   non-Combining  Non-Combining-RL-AdditionFailureFDD
}

Combining-RL-AdditionFailureFDD ::= SEQUENCE {
   rL-ID          RL-ID,
   iE-Extensions        ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs} }
   OPTIONAL,
   ...
}

CombiningItem-RL-AdditionFailureFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-E-DCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response PRESENCE optional },
   ...
}

Non-Combining-RL-AdditionFailureFDD ::= SEQUENCE {
   dCH-InformationResponse DCH-InformationResponse,
   ...
}
iE-Extensions ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs} }  OPTIONAL,
...

Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-DCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response PRESENCE optional },
  ...
}

-- ************************************************************
-- RADIO LINK ADDITION FAILURE TDD
-- ************************************************************

RadioLinkAdditionFailureTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkAdditionFailureTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionFailureTDD-Extensions}} OPTIONAL,
  ...
}

RadioLinkAdditionFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }|
  { ID id-CauseLevel-RL-AdditionFailureTDD CRITICALITY ignore TYPE CauseLevel-RL-AdditionFailureTDD PRESENCE mandatory }|
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

RadioLinkAdditionFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CauseLevel-RL-AdditionFailureTDD ::= CHOICE {
  generalCause GeneralCauseList-RL-AdditionFailureTDD,
  rlSpecificCause RLSpecificCauseList-RL-AdditionFailureTDD,
  ...
}

GeneralCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
  cause Cause,
  iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs} } OPTIONAL,
  ...
}

GeneralCauseItem-RL-AdditionFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RLSpecificCauseList-RL-AdditionFailureTDD ::= SEQUENCE {
  unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD Unsuccessful-RL-InformationRespItem-RL-AdditionFailureTDD,
  ...
}
iE-Extensions  ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs} }  

...  

RLSpecificCauseItem-RL-AdditionFailureTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= 

...  


Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureTDD  NBAP-PROTOCOL-IES ::= 

  PRESENCE mandatory }  

Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD ::= SEQUENCE { 
  rL-ID  RL-ID, 
  cause  Cause, 
  iE-Extensions  ProtocolExtensionContainer { { Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs} }  
  OPTIONAL, 
  ...  
}  

Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= 

...  

-- *******************************************************  
-- RADIO LINK RECONFIGURATION PREPARE FDD  
-- *******************************************************  

RadioLinkReconfigurationPrepareFDD ::= SEQUENCE { 
  protocolIEs  ProtocolIE-Container {{RadioLinkReconfigurationPrepareFDD-IEs}}, 
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}  OPTIONAL, 
  ...  
}  

RadioLinkReconfigurationPrepareFDD-IEs  NBAP-PROTOCOL-IES ::= 

{ ID id-NodeB-CommunicationContextID  CRITICALITY reject  TYPE NodeB-CommunicationContextID  
  PRESENCE mandatory }|  
{ ID id-UL-DPCH-Information-RL-ReconfPrepFDD  CRITICALITY reject  TYPE UL-DPCH-Information-RL-ReconfPrepFDD  
  PRESENCE optional }|  
{ ID id-DL-DPCH-Information-RL-ReconfPrepFDD  CRITICALITY reject  TYPE DL-DPCH-Information-RL-ReconfPrepFDD  
  PRESENCE optional }|  
{ ID id-FDD-DCHs-to-Modify  CRITICALITY reject  TYPE FDD-DCHs-to-Modify  
  PRESENCE optional }|  
{ ID id-DCHs-to-Add-FDD  CRITICALITY reject  TYPE DCH-PDU-Information  
  PRESENCE optional }|  
{ ID id-DCHs-to-DeleteList-RL-ReconfPrepFDD  CRITICALITY reject  TYPE DCH-DeleteList-RL-ReconfPrepFDD  
  PRESENCE optional }|
RadioLinkReconfigurationPrepareFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-SignallingBearerRequestIndicator  CRITICALITY reject EXTENSION SignallingBearerRequestIndicator    PRESENCE optional }|
  { ID id-HSDSCH-FDD-Information     CRITICALITY reject EXTENSION HSDSCH-FDD-Information    PRESENCE optional }|
  { ID id-HSDSCH-Information-to-Modify   CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify    PRESENCE optional }|
  { ID id-HSDSCH-MACdFlows-to-Add      CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Add    PRESENCE optional }|
  { ID id-HSDSCH-MACdFlows-to-Delete    CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete    PRESENCE optional }|
  { ID id-HSDSCH-RNTI        CRITICALITY reject EXTENSION HSDSCH-RNTI     PRESENCE conditional }|  -- The IE shall be present if HS-PDSCH RL ID IE is present.
  { ID id-HSPDSCH-RL-ID         RL-ID,
    }
  { ID id-E-DPCH-Information-RL-ReconfPrepFDD  CRITICALITY reject EXTENSION E-DPCH-Information-RL-ReconfPrepFDD    PRESENCE optional }|
  { ID id-E-DCH-FDD-Information     CRITICALITY reject EXTENSION E-DCH-FDD-Information    PRESENCE optional }|
  { ID id-E-DCH-Information-to-Modify   CRITICALITY reject EXTENSION E-DCH-Information-to-Modify    PRESENCE optional }|
  { ID id-E-DCH-MACdFlows-to-Add      CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-Add    PRESENCE optional }|
  { ID id-E-DCH-MACdFlows-to-Delete    CRITICALITY reject EXTENSION E-DCH-MACdFlows-to-Delete    PRESENCE optional }|
  { ID id-Serving-E-DCH-RL-ID      CRITICALITY reject EXTENSION Serving-E-DCH-RL-ID    PRESENCE optional }|
  { ID id-F-DPCH-Information-RL-ReconfPrepFDD  CRITICALITY reject EXTENSION F-DPCH-Information-RL-ReconfPrepFDD    PRESENCE optional }|
  { ID id-Fast-Reconfiguration-Mode    CRITICALITY ignore EXTENSION Fast-Reconfiguration-Mode    PRESENCE optional }|
  { ID id-CPC-Information       CRITICALITY reject EXTENSION CPC-Information    PRESENCE optional }|
  { ID id-Additional-HS-Cell-Information-RL-Reconf-Prep CRITICALITY reject EXTENSION Additional-HS-Cell-Information-RL-Reconf-Prep  PRESENCE optional }|
  { ID id-Additional-EDCH-Cell-Information-RL-Reconf-Prep CRITICALITY reject EXTENSION Additional-EDCH-Cell-Information-RL-Reconf-Prep  PRESENCE optional },
  ...
}

Additional-HS-Cell-Information-RL-Reconf-Prep ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs

Additional-HS-Cell-Information-RL-Reconf-Prep::=SEQUENCE{
  hSPDSCH-RL-ID
  RL-ID,
  -- Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs
}
c-ID            C-ID            OPTIONAL,
hs-DSCCH-FDD-Secondary-Serving-Information  HS-DSCCH-FDD-Secondary-Serving-Information   OPTIONAL,
hs-DSCCH-Secondary-Serving-Information-To-Modify HS-DSCCH-Secondary-Serving-Information-To-Modify   OPTIONAL,
hs-HS-DSCCH-Secondary-Serving-Remove    HS-DSCCH-Secondary-Serving-Remove     OPTIONAL,
iE-Extensions     ProtocolExtensionContainer { { Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs-ExtIEs} } OPTIONAL,
...

Additional-HS-Cell-Information-RL-Reconf-Prep-ItemIEs-ExtIEs   NBAP-PROTOCOL-EXTENSION ::=

...

Additional-EDCH-Cell-Information-RL-Reconf-Prep ::= SEQUENCE{
  setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency
  iE-Extensions     ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-RL-Reconf-Prep-ExtIEs} } OPTIONAL,
...

Additional-EDCH-Cell-Information-RL-Reconf-Prep-ExtIEs   NBAP-PROTOCOL-EXTENSION ::=

...

UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
  ul-ScramblingCode        UL-ScramblingCode     OPTIONAL,
  ul-SIR-Target        UL-SIR     OPTIONAL,
  minUL-ChannelisationCodeLength     MinUL-ChannelisationCodeLength  OPTIONAL,
  maxNrOfUL-DPDCCHs        MaxNrOfUL-DPDCCHs     OPTIONAL,
  ul-PunctureLimit        PunctureLimit      OPTIONAL,
tPCs        TPCs     OPTIONAL,
ul-DPDCCH-SlotFormat        UL-DPDCCH-SlotFormat     OPTIONAL,
diversityMode        DiversityMode      OPTIONAL,
not-Used-sSDT-CellIDLength      NULL        OPTIONAL,
not-Used-s-FieldLength       NULL        OPTIONAL,
iE-Extensions         ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }
OPTIONAL,
...

UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs   NBAP-PROTOCOL-EXTENSION ::=

{ ID id-UL-DPDCCH-Indicator-For-E-DCH-Operation CRITICALITY reject EXTENSION UL-DPDCCH-Indicator-For-E-DCH-Operation PRESENCE optional },
...

DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
  tPCs        TPCs     OPTIONAL,
dl-DPDCCH-SlotFormat        DL-DPDCCH-SlotFormat     OPTIONAL,
tPCI-SignallingMode        TPCI-SignallingMode     OPTIONAL,
tPCI-Presence        TPCI-Presence      OPTIONAL,
  -- This IE shall be present if the DL DPCH Slot Format IE is set to any of the values from 12 to 16
  multiplexingPosition        MultiplexingPosition     OPTIONAL,
}
not-Used-pDSCH-CodeMapping NULL OPTIONAL,
not-Used-pDSCH-RL-ID NULL OPTIONAL,
limitedPowerIncrease LimitedPowerIncrease OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } }
OPTIONAL,
... 

DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-Power-Information-RL-ReconfPrepFDD ::= SEQUENCE {
powerOffsetInformation PowerOffsetInformation-RL-ReconfPrepFDD,
fdd-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize,
innerLoopDLPCStatus InnerLoopDLPCStatus,
iE-Extensions ProtocolExtensionContainer { { DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs } }
OPTIONAL,
... 

DL-DPCH-Power-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
... 

PowerOffsetInformation-RL-ReconfPrepFDD ::= SEQUENCE {
p01-ForTFCI-Bits PowerOffset,
p02-ForTFCI-Bits PowerOffset,
p03-ForPilotBits PowerOffset,
iE-Extensions ProtocolExtensionContainer { { PowerOffsetInformation-RL-ReconfPrepFDD-ExtIEs } }
OPTIONAL,
... 

DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD

DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
dCH-ID DCH-ID,
iE-Extensions ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs } }
OPTIONAL,
... 

DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
... 

RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-ReconfPrepFDD }}

RL-InformationItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {

ETS
RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
  rl-ID           RL-ID,  
  dl-CodeInformation        FDD-DL-CodeInformation      OPTIONAL,  
  maxDL-Power          DL-Power         OPTIONAL,  
  minDL-Power          DL-Power         OPTIONAL,  
  not-Used-sSDT-Indication      NULL          OPTIONAL,  
  not-Used-sSDT-Cell-Identity      NULL          OPTIONAL,  
  transmitDiversityIndicator      TransmitDiversityIndicator OPTIONAL,  
  -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is not set to 'none'  
  iE-Extensions         ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfPrepFDD-ExtIEs} }  
  OPTIONAL,  
  ...  
}

RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-DLReferencePower      CRITICALITY ignore EXTENSION DL-Power  
    PRESENCE optional ||  
  }},  
  { ID id-RL-Specific-DCH-Info     CRITICALITY ignore EXTENSION RL-Specific-DCH-Info  
    PRESENCE optional ||  
  }},  
  { ID id-DL-DPCH-TimingAdjustment    CRITICALITY reject EXTENSION DL-DPCH-TimingAdjustment  
    PRESENCE optional ||  
  }},  
  { ID id-Primary-CPICH-Usage-for-Channel-Estimation CRITICALITY ignore EXTENSION Primary-CPICH-Usage-for-Channel-Estimation  
    PRESENCE optional ||  
  }},  
  { ID id-Secondary-CPICH-Information-Change CRITICALITY ignore EXTENSION Secondary-CPICH-Information-Change  
    PRESENCE optional ||  
  }},  
  { ID id-E-DCH-RL-Indication CRITICALITY reject EXTENSION E-DCH-RL-Indication  
    PRESENCE optional ||  
  }},  
  { ID id-R-Specific-E-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-E-DCH-Info  
    PRESENCE optional ||  
  }},  
  { ID id-F-DPCH-SlotFormat CRITICALITY reject EXTENSION F-DPCH-SlotFormat  
    PRESENCE optional ||  
  }},  
  { ID id-HSDSCH-PreconfigurationSetup CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationSetup  
    PRESENCE optional ||  
  }},  
  { ID id-Non-Serving-RL-Preconfig-Setup CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup  
    PRESENCE optional ||  
  }},  
  { ID id-Non-Serving-RL-Preconfig-Removal CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Setup  
    PRESENCE optional ||  
  }},  
  ...  
}

E-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
  maxSet-E-DPDCHs        Max-Set-E-DPDCHs  
  OPTIONAL,  
  ul-PunctureLimit       PunctureLimit  
  OPTIONAL,  
  e-TFCS-Information        E-TFCS-Information  
  OPTIONAL,  
  e-TTI          E-TTI  
  OPTIONAL,  
  e-DPCCCH-PO         E-DPCCCH-PO  
  OPTIONAL,  
}
e-RGCH-2-IndexStepThreshold
OPTIONAL,
e-RGCH-3-IndexStepThreshold
OPTIONAL,
hARQ-Info-for-E-DCH
OPTIONAL,
hSDSCH-Configured-Indicator
OPTIONAL,
iE-Extensions
ProtocolExtensionContainer { { E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }  OPTIONAL,
...

E-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MinimumReducedE-DPDCH-GainFactor CRITICALITY ignore EXTENSION MinimumReducedE-DPDCH-GainFactor PRESENCE optional },
  ...
}

F-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
powerOffsetInformation    PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD,
fdd-TPC-DownlinkStepSize   FDD-TPC-DownlinkStepSize,
limitedPowerIncrease    LimitedPowerIncrease,
innerLoopDLPCstatus     InnerLoopDLPCstatus,
iE-Extensions      ProtocolExtensionContainer { { F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} }  OPTIONAL,
...
}

F-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD ::= SEQUENCE {
pO2-ForTPC-Bits      PowerOffset,  -- This IE shall be ignored by Node B
iE-Extensions      ProtocolExtensionContainer { { PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs} }  OPTIONAL,
...
}

PowerOffsetInformation-F-DPCH-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- ************************************************************
-- R A D I O  L I N K  R E C O N F I G U R A T I O N  P R E P A R E  T D D
-- ************************************************************

RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{RadioLinkReconfigurationPrepareTDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer { {RadioLinkReconfigurationPrepareTDD-Extensions} }  OPTIONAL,
...
}
RadioLinkReconfigurationPrepareTDD-IES NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID
    CRITICALITY reject TYPE NodeB-CommunicationContextID
    PRESENCE mandatory }|
  { ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
    CRITICALITY reject TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional }|
  { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
    CRITICALITY reject TYPE UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
    PRESENCE optional }|
  { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
    CRITICALITY reject TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
    PRESENCE optional }|
  { ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
    CRITICALITY reject TYPE DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional }|
  { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
    CRITICALITY reject TYPE DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
    PRESENCE optional }|
  { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
    CRITICALITY reject TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
    PRESENCE optional }|
  { ID id-TDD-DCHs-to-Modify
    CRITICALITY reject TYPE TDD-DCHs-to-Modify
    PRESENCE optional }|
  { ID id-DCHs-to-Add-TDD
    CRITICALITY reject TYPE DCH-TDD-Information
    PRESENCE optional }|
  { ID id-DCH-DeleteList-RL-ReconfPrepTDD
    CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepTDD
    PRESENCE optional }|
  { ID id-DSCCHs-to-Add-TDD
    CRITICALITY reject TYPE DSCCH-TDD-Information
    PRESENCE optional }|
  { ID id-DSCCH-Information-ModifyList-RL-ReconfPrepTDD
    CRITICALITY reject TYPE DSCCH-Information-ModifyList-RL-ReconfPrepTDD
    PRESENCE optional }|
  { ID id-DSCCH-Information-Add
    CRITICALITY reject TYPE DSCCH-Information
    PRESENCE optional }|
  { ID id-DSCCH-Information-DeleteList-RL-ReconfPrepTDD
    CRITICALITY reject TYPE DSCCH-Information-DeleteList-RL-ReconfPrepTDD
    PRESENCE optional }|
  { ID id-RSCH-Information-RL-ReconfPrepTDD
    CRITICALITY reject TYPE RSCH-Information-RL-ReconfPrepTDD
    PRESENCE optional },
  -- This RL Information is the for the 1st RL IE repetition
  ...
}

RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-SignallingBearerRequestIndicator
    CRITICALITY reject EXTENSION SignallingBearerRequestIndicator
    PRESENCE optional }|
  { ID id-HSDSCH-TDD-Information
    CRITICALITY reject EXTENSION HSDSCH-TDD-Information
    PRESENCE optional }|
  { ID id-HSDSCH-Information-to-Modify
    CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify
    PRESENCE optional }|
  { ID id-HSDSCH-MACdFlows-to-Add
    CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
    PRESENCE optional }|
  { ID id-HSDSCH-MACdFlows-to-Delete
    CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
    PRESENCE optional }|
  { ID id-HSDSCH-RNTI
    CRITICALITY reject EXTENSION HSDSCH-RNTI
    PRESENCE conditional }|
  -- The IE shall be present if HS-PDSCH RL ID IE is present.

ETS
{ ID id-HSDDCCH-RL-ID                  CRITICALITY reject EXTENSION RL-ID
  PRESENCE optional }|
{ ID id-HSDDCCH-RL-ID                  CRITICALITY ignore EXTENSION RL-ID
  PRESENCE optional }|
{ ID id-HSDDCCH-RL-Information-RL-ReconfPrepTDD CRITICALITY reject EXTENSION MultipleRL-Information-RL-ReconfPrepTDD
  PRESENCE optional ||
  -- This RL Information is the for the 2nd and beyond repetition of RL information,
  { ID id-E-DCH-Information-Reconfig
    CRITICALITY reject EXTENSION E-DCH-Information-Reconfig
    PRESENCE optional }|
  { ID id-E-DCH-Serving-RL-ID
    CRITICALITY reject EXTENSION RL-ID
    PRESENCE optional }|
  { ID id-E-DCH-768-Information-Reconfig
    CRITICALITY reject EXTENSION E-DCH-768-Information-Reconfig
    PRESENCE optional }|
  { ID id-E-DCH-LCR-Information-Reconfig
    CRITICALITY reject EXTENSION E-DCH-LCR-Information-Reconfig
    PRESENCE optional }|
  { ID id-PowerControlGAP
    CRITICALITY ignore EXTENSION ControlGAP
    PRESENCE optional }|
  -- Applicable to 1.28Mcps TDD only
  { ID id-CPC-InformationLCR
    CRITICALITY reject EXTENSION CPC-InformationLCR
    PRESENCE optional }|
  { ID id-HSSCCH-TPC-StepSize
    CRITICALITY ignore EXTENSION TDD-TPC-DownlinkStepSize
    PRESENCE optional }|
  { ID id-DCH-MeasurementOccasion-Information
    CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information
    PRESENCE optional }|
  { ID id-UE-Selected-MBMS-Service-Information
    CRITICALITY ignore EXTENSION UE-Selected-MBMS-Service-Information
    PRESENCE optional }|
  { ID id-HSSCCH-TPC-StepSize
    CRITICALITY ignore EXTENSION TDD-TPC-DownlinkStepSize
    PRESENCE optional }|
  { ID id-HSSCCH-TPC-StepSize
    CRITICALITY reject EXTENSION TDD-TPC-DownlinkStepSize
    PRESENCE optional }|
  { ID id-DCH-MeasurementOccasion-Information
    CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information
    PRESENCE optional }|
  { ID id-UE-Selected-MBMS-Service-Information
    CRITICALITY ignore EXTENSION UE-Selected-MBMS-Service-Information
    PRESENCE optional }|
  { ID id-HSSCCH-TPC-StepSize
    CRITICALITY reject EXTENSION TDD-TPC-DownlinkStepSize
    PRESENCE optional }|
  { ID id-DCH-MeasurementOccasion-Information
    CRITICALITY reject EXTENSION DCH-MeasurementOccasion-Information
    PRESENCE optional }|
  { ID id-UE-Selected-MBMS-Service-Information
    CRITICALITY ignore EXTENSION UE-Selected-MBMS-Service-Information
    PRESENCE optional }|

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
cCCTrCH-ID CCTrCH-ID,
tPCs        TPCs,
tFCI-Coding TFCI-Coding,
punctureLimit PunctureLimit,
ul-DPCH-InformationList
  UL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
  -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD
  iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-UL-DPCH-LCR-InformationAddListIR-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional }|
  -- Applicable to 1.28Mcps TDD only
  { ID id-UL-DPCH-LCR-InformationAddListIR-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional }|
  -- Applicable to 1.28Mcps TDD only
  { ID id-UL-SIRTarget
    CRITICALITY reject EXTENSION UL-SIR
    PRESENCE optional }|
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.
-- This Information is the for the first RL repetition, SIR Target information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD

{ ID id-TDD-TPC-UplinkStepSize-InformationAdd-RCR-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional }

-- This Information is the for the first RL repetition, TPC information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD

{ ID id-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional }

-- This is the RL ID for the first RL repetition

{ ID id-multipleRL-ul-DPCH-InformationList CRITICALITY reject EXTENSION MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional }

-- This Information is the for the 2nd and beyond RL repetition,

{ ID id-UL-DPCH-768-InformationAddItemIE-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-DPCH-768-InformationAddList-RL-ReconfPrepTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only, first radio link

...

UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}

UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IEs ::= {
  { ID id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH-InformationAddItem-RL-ReconfPrepTDD PRESENCE mandatory }
}

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  ul-Timeslot-Information UL-Timeslot-Information,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
}

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  ul-Timeslot-InformationLCR UL-TimeslotLCR-Information,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
}

UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

MultipleRL-UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD
- Includes the 2nd through the max number of radio link repetitions.

`MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE {`
  ul-DPCH-InformationList  UL-DPCH-InformationAddList-RL-ReconfPrepTDD  OPTIONAL,
  ul-DPCH-InformationListLCR  UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD  OPTIONAL,
  ul-sir-target  UL-SIR  OPTIONAL,
  "Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD."  tDD-TPC-UplinkStepSize-LCR  OPTIONAL,
  "Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD."  rl-ID  RL-ID  OPTIONAL,
  ie-Extensions  ProtocolExtensionContainer  { { MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

`MultipleRL-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {`
  { ID id-UL-DPCH-768-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject EXTENSION UL-DPCH-768-InformationAddList-RL-ReconfPrepTDD PRESENCE optional },
  ...
}

`UL-DPCH-768-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD`

`UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID  CCTrCH-ID,
  tFCS  TFCS  OPTIONAL,
  tFCI-Coding  TFCI-Coding  OPTIONAL,
  punctureLimit  PunctureLimit  OPTIONAL,
  ul-DPCH-InformationAddList  UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD  OPTIONAL,
  -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD
  ul-DPCH-InformationModifyList  UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD  OPTIONAL,
  -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD
  ul-DPCH-InformationDeleteList  UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD  OPTIONAL,
  -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD
  ie-Extensions  ProtocolExtensionContainer  { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

`UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE {
  ul-DPCH-InformationModifyList  UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD  OPTIONAL,
  -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD
  ul-DPCH-InformationDeleteList  UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD  OPTIONAL,
  -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD
  ie-Extensions  ProtocolExtensionContainer  { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}
UL CCH InformationModifyItem-RL-ReconfPrepTDD ExtIEs NBAP PROTOCOL EXTENSION ::= {
    { ID id-UL-DPCH-LCR InformationModify-AddList CRITICALITY reject EXTENSION UL-DPCH-LCR InformationModify-AddList-RL-ReconfPrepTDD PRESENCE optional } -- Applicable to 1.28 Mcps TDD only

    -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH InformationModifyList-RL-ReconfPrepTDD
    { ID id-UL-SIRTarget CRITICALITY reject EXTENSION UL-SIR PRESENCE optional } -- Applicable to 1.28 Mcps TDD only.

    -- This Information is the for the first RL repetition, SIR Target information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH InformationModifyList-RL-ReconfPrepTDD
    { ID id-TDD TPC UplinkStepSize InformationModify-LCR RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD TPC UplinkStepSize-LCR PRESENCE optional } -- Applicable to 1.28 Mcps TDD only

    -- This Information is the for the first RL repetition, Step Size information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH InformationModifyList-RL-ReconfPrepTDD
    { ID id-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional } -- This is the RL ID for the first RL repetition

    { ID id-multipleRL-ul-DPCH InformationModifyAddList CRITICALITY reject EXTENSION MultipleRL-UL-DPCH InformationModifyList-RL-ReconfPrepTDD PRESENCE optional } -- This DPCH Information is the for the 2nd and beyond RL repetition,

    { ID id-UL-DPCH-InformationModify-AddItem CRITICALITY reject EXTENSION UL-DPCH-768 InformationModify-AddItem-RL-ReconfPrepTDD PRESENCE optional } -- Applicable to 7.68 Mcps TDD only

    -- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-UL-DPCH InformationModifyList-RL-ReconfPrepTDD
    ...
}

UL-DPCH InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container { { UL-DPCH InformationModify-AddListIEs-RL-ReconfPrepTDD } }

UL-DPCH InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP PROTOCOL IES ::= {
    { ID id-UL-DPCH InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH InformationModify-AddItem-RL-ReconfPrepTDD PRESENCE mandatory }
}

UL-DPCH InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tdd-DPCHOffset TDD-DPCHOffset,
    ul-Timeslot-Information UL-Timeslot-Information,
    iE-Extensions ProtocolExtensionContainer { { UL-DPCH InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP PROTOCOL EXTENSION ::= {
    ...
}

UL-DPCH InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container { { UL-DPCH InformationModify-ModifyListIEs-RL-ReconfPrepTDD } }

UL-DPCH InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP PROTOCOL IES ::= {
    ...
}

UL-DPCH InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE UL-DPCH InformationModify-ModifyItem-RL-ReconfPrepTDD PRESENCE mandatory }


UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod    RepetitionPeriod OPTIONAL,
    repetitionLength    RepetitionLength OPTIONAL,
    tdd-DPCHOffset      TDD-DPCHOffset OPTIONAL,
    ul-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD -- Applicable to 3.84Mcps TDD only

UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlot        TimeSlot,
    midambleShiftAndBurstType    MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence       TFCI-Presence     OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { { UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID         DPCH-ID,
    tdd-ChannelisationCode    TDD-ChannelisationCode OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
UL-TimeslotLCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE { SIZE (1..maxNrOfULTSLCRs) } OF UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD -- Applicable to 1.28Mcps TDD only

UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  timeSlotLCR TimeSlotLCR,
  midambleShiftLCR MidambleShiftLCR OPTIONAL,
  tFCI-Presence TFCI-Presence OPTIONAL,
  uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ... }

UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR ::= SEQUENCE { SIZE (1..maxNrOfDPCHLCRs) } OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR ::= SEQUENCE {
  dPCH-ID DPCH-ID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR-ExtIEs } } OPTIONAL,
  ... }

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

UL-Timeslot768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE { SIZE (1..maxNrOfULTSs) } OF UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD -- Applicable to 7.68Mcps TDD only

UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  timeSlot TimeSlot,
  midambleShiftAndBurstType768 MidambleShiftAndBurstType768 OPTIONAL,
  tFCI-Presence TFCI-Presence OPTIONAL,
  uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768 UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768 OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
  ... }

UL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD768 ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768 ::= SEQUENCE {
  dPCH-ID         DPCH-ID,
  tdd-ChannelisationCode768    TDD-ChannelisationCode768  OPTIONAL,
  iE-Extensions       ProtocolExtensionContainer {{ UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768-ExtIEs }},
  ...}

UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }},

UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  ID id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD   CRITICALITY reject  TYPE UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  PRESENCE mandatory }

UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD

UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dPCH-ID        DPCH-ID,
  iE-Extensions      ProtocolExtensionContainer {{ UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs }},
  ...}

UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...}

UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod,
  repetitionLength      RepetitionLength,
  tdd-DPCHoffset      TDD-DPCHoffset,
  ul-Timeslot-InformationLCR    UL-TimeslotLCR-Information,
  iE-Extensions       ProtocolExtensionContainer {{ UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs }},
  ...}

UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}
MultipleRL-UL-DPCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD
--Includes the 2nd through the max number of radio link information repetitions.

MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE {
  ul-DPCH-InformationAddList       UL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
  ul-DPCH-InformationModifyList    UL-DPCH-InformationModifyList-RL-ReconfPrepTDD OPTIONAL,
  ul-DPCH-InformationDeleteList    UL-DPCH-InformationDeleteList-RL-ReconfPrepTDD OPTIONAL,
  ul-DPCH-InformationAddListLCR    UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
  tDD-TPC-UplinkStepSize-LCR      TDD-TPC-UplinkStepSize-LCR OPTIONAL,
  ul-sir-target                   UL-SIR OPTIONAL,
  ul-DID                         UL-DID OPTIONAL,
  -- This DPCH Information is the for the 2nd and beyond RL repetitions,
  iE-Extensions                  ProtocolExtensionContainer { { MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...}

MultipleRL-UL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UL-DPCH-768-InformationModify-AddList   CRITICALITY reject EXTENSION UL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD PRESENCE optional },  -- Applicable to 7.68Mcps TDD only
  ...
}

UL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod   RepetitionPeriod,
  repetitionLength   RepetitionLength,
  tdd-DPCHOffset     TDD-DPCHOffset,
  ul-Timeslot-Information768 UL-Timeslot768-Information,
  iE-Extensions      ProtocolExtensionContainer { { UL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD

UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCCTrCH-ID        CCTrCH-ID,
  iE-Extensions     ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  ...}
cCtRCH-ID

CCTrCH-ID,

tFCS

TPCS,

tFCI-Coding

TPCI-Coding,

punctureLimit

PunctureLimit,

cCtRCH-TPCList

CCTrCH-TPCAddList-RL-ReconfPrepTDD OPTIONAL,

3GPP TS 25.433 version 9.5.0 Release 9

cCtRCH-ID

CCTrCH-ID,

tFCS

TPCS,

tFCI-Coding

TPCI-Coding,

punctureLimit

PunctureLimit,

cCtRCH-TPCList

CCTrCH-TPCAddList-RL-ReconfPrepTDD OPTIONAL,

dl-DPCH-InformationList

DL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,

-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD

iE-Extensions

ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }

OPTIONAL,

...}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs

NBAP-PROTOCOL-EXTENSION ::= {

{ ID id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD CRITICALITY reject EXTENSION DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } -- Applicable to 1.28Mcps TDD only

-- This DPCH Information is the for the first RL repetition, DPCH information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD

{ ID id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } -- This DL Power information is the for the first RL repetition, DL power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD

{ ID id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-TPC-DownlinkStepSize PRESENCE optional } -- This DL step size is the for the first RL repetition, DL step size information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD

{ ID id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } -- This DL Power information is the for the first RL repetition, DL power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD

{ ID id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } -- This DL Power information is the for the first RL repetition, DL power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD

{ ID id-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional } -- This is the RL ID for the first RL repetition

{ ID id-multipleRL-dl-DPCH-InformationList CRITICALITY reject EXTENSION MultipleRL-DL-DPCH-InformationAddList-RL-ReconfPrepTDD PRESENCE optional } -- This DPCH Information is the for the 2nd and beyond RL repetition, multipleRL-dl-DPCH-InformationList-RL-ReconfPrepTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only

...}

CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD -- Applicable to 3.84Mcps TDD and 7.68Mcps TDD only

CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE {

cCtRCH-ID

CCTrCH-ID,

iE-Extensions

ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs } }

OPTIONAL,

...}

CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs

NBAP-PROTOCOL-EXTENSION ::= {

...}

DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container { { DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD } }

ETSI
DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IEs ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationAddItem-RL-ReconfPrepTDD PRESENCE mandatory }
}

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tdd-DPCHOffset         TDD-DPCHOffset,
    dl-Timeslot-Information DL-Timeslot-Information,
    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tdd-DPCHOffset         TDD-DPCHOffset,
    dl-Timeslot-InformationLCR DL-TimeslotLCR-Information,
    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD
--Includes the 2nd through the max number of radio link information repetitions.

MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE {
    dl-DPCH-InformationList          DL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    dl-DPCH-InformationListLCR         DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    cCtrCH-Initial-DL-Power           DL-Power       OPTIONAL,
    tDD-TPC-DownlinkStepSize         TDD-TPC-DownlinkStepSize   OPTIONAL,
    cCtrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD  DL-Power       OPTIONAL,
    cCtrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD  DL-Power       OPTIONAL,
    dl-ID              RL-ID        OPTIONAL,
    iE-Extensions     ProtocolExtensionContainer { { MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

MultipleRL-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-768-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject EXTENSION DL-DPCH-768-InformationAddListIE-RL-ReconfPrepTDD PRESENCE optional },
    -- Applicable to 7.68Mcps TDD only
DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod    RepetitionPeriod,
  repetitionLength    RepetitionLength,
  tdd-DPCHOffset      TDD-DPCHOffset,
  dl-TimeslotInformation768    DL-Timeslot768-Information,
  iE-Extensions       ProtocolExtensionContainer { { DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
  OPTIONAL,
  ...}

DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...}

DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCtrCh-ID          CCTrCH-ID,
  tFCPCoding         TFC-PC Coding,
  tFCICoding         TFCI-Coding,
  punctureLimit      PunctureLimit,
  cCtrCh-TPCList     CCTrCH-TPC ModifyList-RL-ReconfPrepTDD,
  dl-DPCH-InformationAddList   DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD  OPTIONAL,
  dl-DPCH-InformationModifyList   DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD  OPTIONAL,
  dl-DPCH-InformationDeleteList   DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD  OPTIONAL,
  iE-Extensions       ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} }
  OPTIONAL,
  ...}

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...}
-- This is the RL ID for the first RL repetition
{ ID id-multipleRL-dl-DPCH-InformationModifyList CRITICALITY reject EXTENSION MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD PRESENCE optional }
-- This DPCH Information is the for the 2nd and beyond RL repetitions,
{ ID id-dl-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD CRITICALITY reject EXTENSION DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only first radio link

CCTrCH-TPCMODifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCMODifyItem-RL-ReconfPrepTDD

CCTrCH-TPCMODifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID        CCTrCH-ID, 
  iE-Extensions       ProtocolExtensionContainer { { CCTrCH-TPCMODifyItem-RL-ReconfPrepTDD-ExtIEs} }  OPTIONAL,
...
}

CCTrCH-TPCMODifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- Applicable to 3.84Mcps TDD only

DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD   CRITICALITY reject  TYPE DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD  PRESENCE mandatory }
}

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod, 
  repetitionLength      RepetitionLength, 
  tdd-DPCHOffset       TDD-DPCHOffset, 
  dL-Timeslot-Information     DL-Timeslot-Information, 
  iE-Extensions       ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} } 
  OPTIONAL,
...
}

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}


DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD   CRITICALITY reject  TYPE DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD  PRESENCE mandatory }
}

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod   OPTIONAL, 
  repetitionLength      RepetitionLength   OPTIONAL,
DL-DPCH-Information-Modify-Item-RL-ReconfPrepTDD::=

DL-Timeslot-Information-Modify-List-RL-ReconfPrepTDD::=SEQUENCE(SIZE(1..maxNrOfDLTSSs)) OF DL-Timeslot-Information-Modify-Item-RL-ReconfPrepTDD

DL-Timeslot-Information-Modify-Item-RL-ReconfPrepTDD::=SEQUENCE{

timeSlot TimeSlot,
midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
tFCI-Presence TFCI-Presence OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { DL-DPCH-Information-Modify-Item-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
}

DL-DPCH-Information-Modify-Item-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { }

DL-Timeslot-LCR-Information-Modify-List-RL-ReconfPrepTDD::=SEQUENCE(SIZE(1..maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-Information-Modify-Item-RL-ReconfPrepTDD

DL-Timeslot-LCR-Information-Modify-Item-RL-ReconfPrepTDD::=SEQUENCE{

timeSlotLCR TimeSlotLCR,
}

DL-Code-Information-Modify-Item-RL-ReconfPrepTDD::=SEQUENCE{

dPCH-ID DPCCH-ID,
tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
}

DL-Code-Information-Modify-Item-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { }

DL-Timeslot-LCR-Information-Modify-Item-RL-ReconfPrepTDD::=SEQUENCE{

timeslotLCR TimeslotLCR,
}
midambleShiftLCR            MidambleShiftLCR      OPTIONAL,
tPCIPresence               TPCI-Presence         OPTIONAL,
OPTIONAL,
iE-Extensions               ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
OPTIONAL,
...

DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional }|
-- Applicable to 1.28Mcps TDD only
-- Applicable to 1.28Mcps TDD only
...

DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHLCRs)) OF DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD
DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dPCH-ID         DPCH-ID,
tdd-ChannelisationCodeLCR    TDD-ChannelisationCodeLCR  OPTIONAL,
iE-Extensions               ProtocolExtensionContainer { { DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
OPTIONAL,
...

DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD CRITICALITY reject EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR PRESENCE optional},
...

DL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD
DL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  timeSlot        TimeSlot,
midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
tPCIPresence               TPCI-Presence         OPTIONAL,
OPTIONAL,
iE-Extensions               ProtocolExtensionContainer { { DL-Timeslot-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
OPTIONAL,
...

DL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

DL-Code-768-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs768)) OF DL-Code-768-InformationModify-ModifyItem-RL-ReconfPrepTDD
DL-Code-768-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dPCH-ID768        DPCH-ID768,
  tdd-ChannelisationCode768    TDD-ChannelisationCode768  OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { { DL-Code-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-Code-768-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}


DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD   CRITICALITY reject TYPE DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD PRESENCE mandatory }
}

DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD

DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dPCH-ID          DPCH-ID,
  iE-Extensions        ProtocolExtensionContainer { { DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod      RepetitionPeriod,
  repetitionLength      RepetitionLength,
  tdd-DPCHOffset       TDD-DPCHoffset,
  dl-Timeslot-InformationLCR DL-TimeslotLCR-Information,
  iE-Extensions        ProtocolExtensionContainer { { DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

MultipleRL-DL-DPCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-DL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD
--Includes the 2nd through the max number of radio link information repetitions.

MultipleRL-DL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE {
dl-DPCH-InformationAddList
  dl-DPCH-InformationModifyList
  dl-DPCH-InformationDeleteList
  tDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD
  cCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD
  cCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD
  rL-ID
  iE-Extensions

MultipleRL-DL-DPCH-InformationModifyListIE-RL-ReconfPrepTDD-EtTIEs NBAP-PROTOCOL-EXTENSION ::= {
  ID id-DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD CRITICALITY reject EXTENSION
  DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD PRESENCE optional }, -- Applicable to 7.68Mcps TDD only

DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-DPCHOffset TDD-DPCHOffset,
  dl-Timeslot-Information768 DL-Timeslot768-Information,
  iE-Extensions ProtocolExtensionContainer { { DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-EtTIEs} } OPTIONAL,

DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD-EtTIEs NBAP-PROTOCOL-EXTENSION ::= {

DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  iE-Extensions ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-EtTIEs} } OPTIONAL,

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-EtTIEs NBAP-PROTOCOL-EXTENSION ::= {

DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD

DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dCH-ID DCH-ID,
  iE-Extensions ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepTDD-EtTIEs} } OPTIONAL,
<table>
<thead>
<tr>
<th>Line No.</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>899</td>
<td></td>
<td>DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {</td>
</tr>
<tr>
<td>900</td>
<td></td>
<td>...</td>
</tr>
<tr>
<td>901</td>
<td></td>
<td>DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD</td>
</tr>
<tr>
<td>902</td>
<td></td>
<td>dSCH-ID DSCH-ID,</td>
</tr>
<tr>
<td>903</td>
<td></td>
<td>cCTrCH-ID CcCTrCH-ID OPTIONAL,</td>
</tr>
<tr>
<td>904</td>
<td></td>
<td>-- DL CcCTrCH in which the DSCH is mapped</td>
</tr>
<tr>
<td>905</td>
<td></td>
<td>transportFormatSet TransportFormatSet OPTIONAL,</td>
</tr>
<tr>
<td>906</td>
<td></td>
<td>allocationRetentionPriority AllocationRetentionPriority OPTIONAL,</td>
</tr>
<tr>
<td>907</td>
<td></td>
<td>frameHandlingPriority FrameHandlingPriority OPTIONAL,</td>
</tr>
<tr>
<td>908</td>
<td></td>
<td>toAWS ToAWS OPTIONAL,</td>
</tr>
<tr>
<td>909</td>
<td></td>
<td>toAWE ToAWE OPTIONAL,</td>
</tr>
<tr>
<td>910</td>
<td></td>
<td>transportBearerRequestIndicator TransportBearerRequestIndicator,</td>
</tr>
<tr>
<td>911</td>
<td></td>
<td>iE-Extensions ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,</td>
</tr>
<tr>
<td>912</td>
<td></td>
<td>...</td>
</tr>
<tr>
<td>913</td>
<td></td>
<td>DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE</td>
</tr>
<tr>
<td>914</td>
<td></td>
<td>dSCH-ID DSCH-ID,</td>
</tr>
<tr>
<td>915</td>
<td></td>
<td>cCTrCH-ID CcCTrCH-ID OPTIONAL,</td>
</tr>
<tr>
<td>916</td>
<td></td>
<td>-- DL CcCTrCH in which the DSCH is mapped</td>
</tr>
<tr>
<td>917</td>
<td></td>
<td>transportFormatSet TransportFormatSet OPTIONAL,</td>
</tr>
<tr>
<td>918</td>
<td></td>
<td>allocationRetentionPriority AllocationRetentionPriority OPTIONAL,</td>
</tr>
<tr>
<td>919</td>
<td></td>
<td>frameHandlingPriority FrameHandlingPriority OPTIONAL,</td>
</tr>
<tr>
<td>920</td>
<td></td>
<td>toAWS ToAWS OPTIONAL,</td>
</tr>
<tr>
<td>921</td>
<td></td>
<td>toAWE ToAWE OPTIONAL,</td>
</tr>
<tr>
<td>922</td>
<td></td>
<td>transportBearerRequestIndicator TransportBearerRequestIndicator,</td>
</tr>
<tr>
<td>923</td>
<td></td>
<td>iE-Extensions ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,</td>
</tr>
<tr>
<td>924</td>
<td></td>
<td>...</td>
</tr>
<tr>
<td>925</td>
<td></td>
<td>DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD</td>
</tr>
<tr>
<td>926</td>
<td></td>
<td>dSCH-ID DSCH-ID,</td>
</tr>
<tr>
<td>927</td>
<td></td>
<td>iE-Extensions ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,</td>
</tr>
<tr>
<td>928</td>
<td></td>
<td>...</td>
</tr>
<tr>
<td>929</td>
<td></td>
<td>DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {</td>
</tr>
<tr>
<td>930</td>
<td></td>
<td>{ ID id-bindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional }</td>
</tr>
<tr>
<td>931</td>
<td></td>
<td>{ ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional }</td>
</tr>
<tr>
<td>932</td>
<td></td>
<td>-- Shall be ignored if bearer establishment with ALCAP.</td>
</tr>
<tr>
<td>933</td>
<td></td>
<td>{ ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },</td>
</tr>
<tr>
<td>934</td>
<td></td>
<td>...</td>
</tr>
<tr>
<td>935</td>
<td></td>
<td>DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD</td>
</tr>
<tr>
<td>936</td>
<td></td>
<td>dSCH-ID DSCH-ID,</td>
</tr>
</tbody>
</table>
| 937     |     |   iE-Extensions ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } }
| 938     |     |   OPTIONAL, |
| 939     |     |   ... |
| 940     |     | USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD |
| 941     |     |   uSCH-ID USCH-ID, |
| 942     |     |   transportFormatSet TransportFormatSet OPTIONAL, |
| 943     |     |   allocationRetentionPriority AllocationRetentionPriority OPTIONAL, |
| 944     |     |   cCTrCH-ID CcCTrCH-ID OPTIONAL, -- UL CcCTrCH in which the USCH is mapped |
| 945     |     |   transportBearerRequestIndicator TransportBearerRequestIndicator, |
| 946     |     |   iE-Extensions ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL, |

**ETSI**
USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs ::= NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-bindingID     CRITICALITY ignore EXTENSION BindingID PRESENCE optional } |
  -- Shall be ignored if bearer establishment with ALCAP. 
  { ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional } |
  -- Shall be ignored if bearer establishment with ALCAP. 
  { ID id-TnlQos    CRITICALITY ignore EXTENSION TnlQos    PRESENCE optional },
  ...
}

USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfPrepTDD

USCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
  usCH-ID USCH-ID, 
  iE-Extensions ProtocolExtensionContainer { { USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL, 
  ...
}

USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs ::= NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

MultipleRL-Information-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-Information-RL-ReconfPrepTDD
--Includes the 2nd through the max number of radio link information repetitions.

RL-Information-RL-ReconfPrepTDD ::= SEQUENCE {
  rL-ID RL-ID, 
  maxDL-Power DL-Power OPTIONAL, 
  minDL-Power DL-Power OPTIONAL, 
  iE-Extensions ProtocolExtensionContainer { { RL-Information-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL, 
  ...
}

RL-Information-RL-ReconfPrepTDD-ExtIEs ::= NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-InitDL-Power CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } |
  { ID id-RL-Specific-DCH-Info CRITICALITY ignore EXTENSION RL-Specific-DCH-Info PRESENCE optional } |
  { ID id-UL-Synchronisation-Parameters-LCR CRITICALITY ignore EXTENSION UL-Synchronisation-Parameters-LCR PRESENCE optional } |
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD 
  { ID id-TimeslotISCP-InfoList-RL-ReconfPrepTDD CRITICALITY ignore EXTENSION DL-TimeslotISCPInfoLCR PRESENCE optional } |
  -- Applicable to 1.28Mcps TDD only 
  { ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional } |
  -- Applicable to 1.28Mcps TDD when using multiple frequencies 
  ...
}
RadioLinkReconfigurationReady ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{RadioLinkReconfigurationReady-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationReady-Extensions}}  OPTIONAL,
... }

RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IEBS ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }|
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
... }

RadioLinkReconfigurationReady-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-TargetCommunicationControlPortID CRITICALITY ignore EXTENSION CommunicationControlPortID PRESENCE optional }|
  { ID id-HSDSCH-FDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-FDD-Information-Response PRESENCE optimal }|
  { ID id-HSDSCH-TDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response PRESENCE optional }|
  { ID id-E-DCH-Information-Response CRITICALITY ignore EXTENSION E-DCH-Information-Response PRESENCE optional }|
  { ID id-MAChs-ResetIndicator CRITICALITY ignore EXTENSION MAChs-ResetIndicator PRESENCE optional }|
  { ID id-Fast-Reconfiguration-Permission CRITICALITY ignore EXTENSION Fast-Reconfiguration-Permission PRESENCE optional }|
  { ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Information-Response PRESENCE optional }|
  { ID id-Additional-HS-Cell-Information-Response CRITICALITY ignore EXTENSION Additional-HS-Cell-Information-Response-List PRESENCE optional }|
  { ID id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR CRITICALITY ignore EXTENSION ContinuousPacketConnectivity-DRX-Information-ResponseLCR PRESENCE optimal }|
  { ID id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optimal }|
  { ID id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR CRITICALITY ignore EXTENSION E-DCH-Semi-PersistentScheduling-Information-ResponseLCR PRESENCE optimal }|
  { ID id-Additional-EDCH-Cell-Information-ResponseRLReconf CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Response-RLReconf-List PRESENCE optional }|
  { ID id-E-RNTI-For-PACH CRITICALITY ignore EXTENSION E-RNTI PRESENCE optional },
... }

RL-InformationResponseList-RL-ReconfReady ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-ReconfReady}}
RL-InformationResponseItemIE-RL-ReconfReady  NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-ReconfReady  CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReady  PRESENCE mandatory }
}

RL-InformationResponseItem-RL-ReconfReady  ::= SEQUENCE {
    rL-ID  RL-ID,
    dCH-InformationResponseList-RL-ReconfReady  DCH-InformationResponseList-RL-ReconfReady OPTIONAL,
    dSCH-InformationResponseList-RL-ReconfReady  DSCH-InformationResponseList-RL-ReconfReady OPTIONAL, -- TDD only
    uSCH-InformationResponseList-RL-ReconfReady  USCH-InformationResponseList-RL-ReconfReady OPTIONAL, -- TDD only
    not-Used-tPCl2-BearerInformationResponse NULL OPTIONAL,
    iE-Extensions  ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs } } OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-ReconfReady-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-UpdatedIndicator  CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator  PRESENCE optional }|
    { ID id-E-DCH-RL-Set-ID  CRITICALITY ignore EXTENSION RL-Set-ID  PRESENCE optional }|
    { ID id-E-DCH-FDD-DL-Control-Channel-Information  CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information  PRESENCE optional }|
    { ID id-E-DCH-FDD-Information-Response  CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response  PRESENCE optional }|
    { ID id-HSDSCH-PreconfigurationInfo  CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo  PRESENCE optional }|
    { ID id-Non-Serving-RL-Preconfig-Info  CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info  PRESENCE optional },
    ...
}


DCH-InformationResponseListIEs-RL-ReconfReady  NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse  CRITICALITY ignore TYPE DCH-InformationResponse  PRESENCE mandatory }
}


DSCH-InformationResponseListIEs-RL-ReconfReady  NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse  CRITICALITY ignore TYPE DSCH-InformationResponse  PRESENCE mandatory }
}


USCH-InformationResponseListIEs-RL-ReconfReady  NBAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationResponse  CRITICALITY ignore TYPE USCH-InformationResponse  PRESENCE mandatory }
}

-- **************************************************************
-- RADIO LINK RECONFIGURATION FAILURE
-- **************************************************************
RadioLinkReconfigurationFailure ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{RadioLinkReconfigurationFailure-IEs}},
  protocolExtensions  ProtocolExtensionContainer  {{RadioLinkReconfigurationFailure-Extensions}}  OPTIONAL,
  ...
}

RadioLinkReconfigurationFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID   CRITICALITY ignore TYPE CRNC-CommunicationContextID  PRESENCE mandatory } |
  { ID id-CauseLevel-RL-ReconfFailure   CRITICALITY ignore TYPE CauseLevel-RL-ReconfFailure  PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics    CRITICALITY ignore TYPE CriticalityDiagnostics   PRESENCE optional },
  ...
}

RadioLinkReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CauseLevel-RL-ReconfFailure ::= CHOICE {
  generalCause   GeneralCauseList-RL-ReconfFailure,
  rlSpecificCause   RLSpecificCauseList-RL-ReconfFailure,
  ...
}

GeneralCauseList-RL-ReconfFailure ::= SEQUENCE {
  cause          Cause,
  IE-Extensions        ProtocolExtensionContainer  {{ GeneralCauseItem-RL-ReconfFailure-ExtIEs} }  OPTIONAL,
  ...
}

GeneralCauseItem-RL-ReconfFailure-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RLSpecificCauseList-RL-ReconfFailure ::= SEQUENCE {
  RL-ReconfigurationFailureList-RL-ReconfFailure  RL-ReconfigurationFailureList-RL-ReconfFailure  OPTIONAL,
  IE-Extensions          ProtocolExtensionContainer  {{ RLSpecificCauseItem-RL-ReconfFailure-ExtIEs} }  OPTIONAL,
  ...
}

RLSpecificCauseItem-RL-ReconfFailure-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-ReconfigurationFailureList-RL-ReconfFailure ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container  {{ RL-ReconfigurationFailureItemIE-RL-ReconfFailure}}  }

RL-ReconfigurationFailureItemIE-RL-ReconfFailure NBAP-PROTOCOL-IES ::= {
  { ID id-RL-ReconfigurationFailureItemIE-RL-ReconfFailure CRITICALITY ignore TYPE RL-ReconfigurationFailureItemIE-RL-ReconfFailure  PRESENCE mandatory}
RL-ReconfigurationFailureItem-RL-ReconfFailure ::= SEQUENCE {
    rL-ID          RL-ID,  
    cause          Cause,  
    iE-Extensions        ProtocolExtensionContainer { { RL-ReconfigurationFailureItem-RL-ReconfFailure-ExtIEs} } OPTIONAL,
    ...  
}

RL-ReconfigurationFailureItem-RL-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...  
}

-- ************************************************************
-- RADIO LINK RECONFIGURATION COMMIT
-- ****************************************************************

RadioLinkReconfigurationCommit ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{RadioLinkReconfigurationCommit-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationCommit-Extensions}}  OPTIONAL,
    ...  
}

RadioLinkReconfigurationCommit-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID   CRITICALITY ignore TYPE NodeB-CommunicationContextID   PRESENCE mandatory } |  
    { ID id-CFN         CRITICALITY ignore TYPE CFN     PRESENCE mandatory } |  
    { ID id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-Pattern-Sequence-Information PRESENCE optional },  
    -- FDD only  
    ...  
}

RadioLinkReconfigurationCommit-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Fast-Reconfiguration-Mode CRITICALITY reject EXTENSION Fast-Reconfiguration-Mode  PRESENCE optional },--FDD only  
    ...  
}

-- ************************************************************
-- RADIO LINK RECONFIGURATION CANCEL
-- ****************************************************************

RadioLinkReconfigurationCancel ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{RadioLinkReconfigurationCancel-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationCancel-Extensions}}  OPTIONAL,
    }  

RadioLinkReconfigurationCancel-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID   CRITICALITY ignore TYPE NodeB-CommunicationContextID   PRESENCE mandatory } |  
    ...  
}
RadioLinkReconfigurationCancel-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- ************************************************************
-- RADIO LINK RECONFIGURATION REQUEST FDD
-- ************************************************************

RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{RadioLinkReconfigurationRequestFDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}  OPTIONAL,
...
}

RadioLinkReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID     CRITICALITY reject TYPE NodeB-CommunicationContextID
  PRESENCE mandatory }|
  { ID id-UL-DPCH-Information-RL-ReconfRqstFDD    CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfRqstFDD
  PRESENCE optional }|
  { ID id-DL-DPCH-Information-RL-ReconfRqstFDD    CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD
  PRESENCE optional }|
  { ID id-FDD-DCHs-to-Modify                   CRITICALITY reject TYPE FDD-DCHs-to-Modify
  PRESENCE optional }|
  { ID id-DCHs-to-Add-FDD                     CRITICALITY reject TYPE DCH-FDD-Information
  PRESENCE optional }|
  { ID id-DCH-DeleteList-RL-ReconfRqstFDD       CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstFDD
  PRESENCE optional }|
  { ID id-RL-InformationList-RL-ReconfRqstFDD    CRITICALITY reject TYPE RL-InformationList-RL-ReconfRqstFDD
  PRESENCE optional }|
  { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information
  PRESENCE optional }|
...
}

RadioLinkReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-SignallingBearerRequestIndicator    CRITICALITY reject EXTENSION SignallingBearerRequestIndicator
  PRESENCE optional }|
  { ID id-HSDSCH-FDD-Information               CRITICALITY reject EXTENSION HSDSCH-FDD-Information
  PRESENCE optional }|
  { ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify-Unsynchronised
  PRESENCE optional }|
  { ID id-HSDSCH-MACdFlows-to-Add            CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information
  PRESENCE optional }|
  { ID id-HSDSCH-MACdFlows-to-Delete         CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete
  PRESENCE optional }|
  { ID id-HSDSCH-RNTI                         CRITICALITY reject EXTENSION HSDSCH-RNTI
  PRESENCE conditional }|
  -- The IE shall be present if HS-PDSCH RL ID IE is present.
  { ID id-HSFDsCH-RL-ID                     CRITICALITY reject EXTENSION RL-ID
  PRESENCE optional }|
...
906

Additional-HS-Cell-Information-RL-Reconf-Req ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Reconf-Req-ItemIEs

Additional-HS-Cell-Information-RL-Reconf-Req-ItemIEs ::= SEQUENCE{
  hSPDSCH-RL-ID                RL-ID,
  c-ID                         C-ID OPTIONAL,
  hS-DSCH-FDD-Secondary-Serving-Information                  HS-DSCH-FDD-Secondary-Serving-Information OPTIONAL,
  hS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-Unsynchronised OPTIONAL,
  hS-DSCH-Secondary-Serving-Remove                           HS-DSCH-Secondary-Serving-Remove OPTIONAL,
  iE-Extensions                                           ProtocolExtensionContainer { { Additional-HS-Cell-Information-RL-Reconf-Req-ExtIEs } } OPTIONAL,
  ...}

Additional-HS-Cell-Information-RL-Reconf-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

Additional-EDCH-Cell-Information-RL-Reconf-Req ::= SEQUENCE{
  setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency             Setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency,
  iE-Extensions                                           ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-RL-Reconf-Req-ExtIEs } } OPTIONAL,
  ...}

Additional-EDCH-Cell-Information-RL-Reconf-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
  ul-TFCS           TPFS   OPTIONAL,
  iE-Extensions         ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} }
  OPTIONAL,
  ...  
}

UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-UL-DPDCH-Indicator-For-E-DCH-Operation CRITICALITY reject EXTENSION UL-DPDCH-Indicator-For-E-DCH-Operation PRESENCE optional },
  ...
}

DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
  dl-TFCS           TFCS         OPTIONAL,
  tFCI-SignallingMode        TFCI-SignallingMode      OPTIONAL,
  limitedPowerIncrease       LimitedPowerIncrease     OPTIONAL,
  iE-Extensions         ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} }
  OPTIONAL,
  ...
}

DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-DeleteList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstFDD

DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
  dCH-ID           DCH-ID,
  iE-Extensions         ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs} }
  OPTIONAL,
  ...
}

DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-ReconfRqstFDD}}

RL-InformationItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItemIE-RL-ReconfRqstFDD CRITICALITY reject TYPE RL-InformationItemIE-RL-ReconfRqstFDD PRESENCE mandatory }
}

RL-InformationItemRL-ReconfRqstFDD ::= SEQUENCE {
  rL-ID          RL-ID,
  maxDL-Power         DL-Power     OPTIONAL,
  minDL-Power         DL-Power     OPTIONAL,
  dl-CodeInformation       FDD-DL-CodeInformation  OPTIONAL,
  -- The IE shall be present if the Transmission Gap Pattern Sequence Information IE is included and the indicated Downlink Compressed Mode method for at least one of the included Transmission Gap Pattern Sequence is set to "SF/2".

ETS
E-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    maxSet-E-DPDCHs   Max-Set-E-DPDCHs             OPTIONAL,
    ul-PunctureLimit  PunctureLimit              OPTIONAL,
    e-TFCS-Information E-TFCS-Information             OPTIONAL,
    e-TTI            E-TTI                OPTIONAL,
    e-DPCCH-PO       E-DPCCH-PO              OPTIONAL,
    e-RGCH-2-IndexStepThreshold E-RGCH-2-IndexStepThreshold           OPTIONAL,
    e-RGCH-3-IndexStepThreshold E-RGCH-3-IndexStepThreshold           OPTIONAL,
    hARQ-Info-for-E-DCH HARQ-Info-for-E-DCH             OPTIONAL,
    hSDSCH-Configured-Indicator HSDSCH-Configured-Indicator           OPTIONAL,
    ieExtensions     ProtocolExtensionContainer { { E-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

E-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MinimumReducedE-DPDCH-GainFactor  CRITICALITY ignore EXTENSION MinimumReducedE-DPDCH-GainFactor PRESENCE optional }
    ...
}
RadioLinkReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID 
      PRESENCE mandatory } |
    { ID id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD 
      PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD 
      PRESENCE optional } |
    { ID id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD 
      PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD 
      PRESENCE optional } |
    { ID id-TDD-DCHs-to-Modify CRITICALITY reject TYPE TDD-DCHs-to-Modify 
      PRESENCE optional } |
    { ID id-DCHs-to-Add-TDD CRITICALITY reject TYPE DCH-TDD-Information 
      PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfRqstTDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstTDD 
      PRESENCE optional } |
    { ID id-RL-Information-RL-ReconfRqstTDD CRITICALITY reject TYPE RL-Information-RL-ReconfRqstTDD 
      PRESENCE optional } |
    -- This RL-Information-RL-ReconfRqstTDD is the first RL information repetition in the RL-Information List. Repetition 2 and on, should be defined in Multiple-RL-Information-RL-ReconfRqstTDD, ...
}

RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SignallingBearerRequestIndicator CRITICALITY reject EXTENSION SignallingBearerRequestIndicator 
      PRESENCE optional } |
    { ID id-multiple-RL-Information-RL-ReconfRqstTDD CRITICALITY reject EXTENSION Multiple-RL-Information-RL-ReconfRqstTDD 
      PRESENCE optional } |
    -- Includes the 2nd through the max number of radio link information repetitions.
    { ID id-HSDSCH-TDD-Information CRITICALITY reject EXTENSION HSDSCH-TDD-Information 
      PRESENCE optional } |
    { ID id-HSDSCH-Information-to-Modify-Unsynchronised CRITICALITY reject EXTENSION HSDSCH-Information-to-Modify-Unsynchronised 
      PRESENCE optional } |
    { ID id-HSDSCH-MACdFlows-to-Add CRITICALITY reject EXTENSION HSDSCH-MACdFlows-Information 
      PRESENCE optional } |
    { ID id-HSDSCH-MACdFlows-to-Delete CRITICALITY reject EXTENSION HSDSCH-MACdFlows-to-Delete 
      PRESENCE optional } |
    { ID id-HSDSCH-RNTI CRITICALITY reject EXTENSION HSDSCH-RNTI 
      PRESENCE conditional } |
    -- The IE shall be present if H2-PDSCH RL ID IE is present.
    { ID id-H2PDSCH-RL-ID CRITICALITY reject EXTENSION RL-ID 
      PRESENCE optional } |
    { ID id-E-DCH-Information-Reconfig CRITICALITY reject EXTENSION E-DCH-Information-Reconfig 
      PRESENCE optional } |
    { ID id-E-DCH-Serving-RL-ID CRITICALITY reject EXTENSION RL-ID 
      PRESENCE optional } |
    { ID id-E-DCH-768-Information-Reconfig CRITICALITY reject EXTENSION E-DCH-768-Information-Reconfig 
      PRESENCE optional } |
    { ID id-E-DCH-LCR-Information-Reconfig CRITICALITY reject EXTENSION E-DCH-LCR-Information-Reconfig 
      PRESENCE optional } |
UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD}}

UL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD PRESENCE mandatory }
}

UL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  tFCS TFCS OPTIONAL,
  punctureLimit PunctureLimit OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD}}

UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD CRITICALITY notify TYPE UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD PRESENCE mandatory }
}

UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}
DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD }}

DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  ID id-DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD PRESENCE mandatory }

DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID CCTrCH-ID,
  tFCS TFCS OPTIONAL,
  punctureLimit PunctureLimit OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD CRITICALITY ignore EXTENSION DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD PRESENCE optional } -- Applicable to 1.28Mcps TDD only
  -- This DPCH LCR Information is for the first RL repetition, DPCH LCR information for RL repetitions 2 and on, should be defined in MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD.
  { ID id-DL-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } -- This power Information is for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD.
  { ID id-DL-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } -- This power Information is for the first RL repetition, power information for RL repetitions 2 and on, should be defined in MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD.
  { ID id-RL-ID CRITICALITY ignore EXTENSION RL-ID PRESENCE optional } -- This is the RL ID for the first RL repetition.
  { ID id-multipleRL-dl-CCTrCH-InformationModifyList-RL-ReconfRqstTDD CRITICALITY reject EXTENSION MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD PRESENCE optional },
  -- This CCTrCH Information is for the 2nd and beyond RL repetitions.
  ...
}

MultipleRL-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF MultipleRL-DL-CCTrCH-InformationModifyListIE-RL-ReconfRqstTDD
-- Includes the 2nd through the max number of radio link information repetitions.

MultipleRL-DL-CCTrCH-InformationModifyListIE-RL-ReconfRqstTDD ::= SEQUENCE {
  ...
DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE {
  DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD
    DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD
OPTIONAL,
  iE-Extensions
    ProtocolExtensionContainer {{ DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,

  ...
}

DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD-ExtIEs   NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD

DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
  timeSlotLCR
    TimeSlotLCR,
  maxPowerLCR
    DL-Power OPTIONAL,
  minPowerLCR
    DL-Power OPTIONAL,
  iE-Extensions
    ProtocolExtensionContainer {{ DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,

  ...
}

DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfRqstTDD-ExtIEs   NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container {{ DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD}}

DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD PRESENCE mandatory }
}

DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID
    CCTrCH-ID,
  iE-Extensions
    ProtocolExtensionContainer {{ DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,

  ...
}

DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD-ExtIEs   NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstTDD

DCH-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
  dCH-ID
    DCH-ID,
  iE-Extensions
    ProtocolExtensionContainer {{ DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
DCH-DeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

... 

}

Multiple-RL-Information-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF RL-Information-RL-ReconfRqstTDD
--Includes the 2nd through the max number of radio link information repetitions.

RL-Information-RL-ReconfRqstTDD ::= SEQUENCE {
  rL-ID          RL-ID,
  maxDL-Power         DL-Power  OPTIONAL,
  minDL-Power         DL-Power  OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,

...

}

RL-InformationItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

  { ID id-RL-Specific-DCH-Info    CRITICALITY ignore  EXTENSION  RL-Specific-DCH-Info  PRESENCE optional }|
  { ID id-UL-Synchronisation-Parameters-LCR CRITICALITY ignore  EXTENSION  UL-Synchronisation-Parameters-LCR  PRESENCE optional },
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD

... 

-- ***************************************************
-- RADIO LINK RECONFIGURATION RESPONSE
-- ***************************************************

RadioLinkReconfigurationResponse ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{RadioLinkReconfigurationResponse-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationResponse-Extensions}}  OPTIONAL,

...

}

RadioLinkReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {

  { ID id-CRNC-CommunicationContextID     CRITICALITY ignore  TYPE CRNC-CommunicationContextID  PRESENCE mandatory } |
  { ID id-RL-InformationResponseList-RL-ReconfRsp  CRITICALITY ignore  TYPE RL-InformationResponseList-RL-ReconfRsp  PRESENCE optional } |
  { ID id-CriticalityDiagnostics      CRITICALITY ignore  TYPE CriticalityDiagnostics  PRESENCE optional },

...

}

RadioLinkReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {

  { ID id-TargetCommunicationControlPortID CRITICALITY ignore  EXTENSION CommunicationControlPortID  PRESENCE optional } |
  { ID id-HSDSCH-FDD-Information-Response  CRITICALITY ignore  EXTENSION HSDSCH-FDD-Information-Response  PRESENCE optional } |
  -- FDD only
{ ID id-HSDSCH-TDD-Information-Response CRITICALITY ignore EXTENSION HSDSCH-TDD-Information-Response PRESENCE optional }||
  -- TDD only
{ ID id-E-DCH-Information-Response CRITICALITY ignore EXTENSION E-DCH-Information-Response PRESENCE optional }||
{ ID id-MACHs-ResetIndicator CRITICALITY ignore EXTENSION MACHs-ResetIndicator PRESENCE optional }||
{ ID id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response CRITICALITY ignore EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Information-Response PRESENCE optional }||
{ ID id-Additional-EDCH-Cell-Information-ResponseRLReconf CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-ResponseRLReconf PRESENCE optional },
...

RL-InformationResponseList-RL-ReconfRsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-InformationResponseItemIE-RL-ReconfRsp}}

RL-InformationResponseItemIE-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationResponseItem-RL-ReconfRsp CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfRsp PRESENCE mandatory }
}

RL-InformationResponseItem-RL-ReconfRsp ::= SEQUENCE {
  rL-ID           RL-ID,
  dCH-InformationResponseList-RL-ReconfRsp DCH-InformationResponseList-RL-ReconfRsp OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfRsp-ExtIEs} } OPTIONAL,
...}

RL-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator PRESENCE optional }||
  -- FDD only
  { ID id-E-DCH-RL-Set-ID CRITICALITY ignore EXTENSION RL-Set-ID PRESENCE optional }||
  { ID id-E-DCH-FDD-DL-Control-Channel-Information CRITICALITY ignore EXTENSION E-DCH-FDD-DL-Control-Channel-Information PRESENCE optional }||
  { ID id-E-DCH-FDD-Information-Response CRITICALITY ignore EXTENSION E-DCH-FDD-Information-Response PRESENCE optional }||
  { ID id-HSDSCH-PreconfigurationInfo CRITICALITY ignore EXTENSION HSDSCH-PreconfigurationInfo PRESENCE optional }||
  { ID id-Non-Serving-RL-Preconfig-Info CRITICALITY ignore EXTENSION Non-Serving-RL-Preconfig-Info PRESENCE optional },
...

DCH-InformationResponseListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {
   { ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory }
}

-- **************************************************************
-- RADIO LINK DELETION REQUEST
-- **************************************************************

RadioLinkDeletionRequest ::= SEQUENCE {
   protocolIEs    ProtocolIE-Container  {{RadioLinkDeletionRequest-IEs}},
   protocolExtensions  ProtocolExtensionContainer {{RadioLinkDeletionRequest-Extensions}}  OPTIONAL,
   ...
}

RadioLinkDeletionRequest-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory }|
   { ID id-CRNC-CommunicationContextID CRITICALITY reject TYPE CRNC-CommunicationContextID PRESENCE mandatory }|
   { ID id-RL-informationList-RL-DeletionRqst CRITICALITY notify TYPE RL-informationList-RL-DeletionRqst PRESENCE mandatory },
   ...
}

RadioLinkDeletionRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
   ...
}

RL-informationList-RL-DeletionRqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-informationItemIE-RL-DeletionRqst}}

RL-informationItemIE-RL-DeletionRqst NBAP-PROTOCOL-IES ::= {
   { ID id-RL-informationItem-RL-DeletionRqst CRITICALITY notify TYPE RL-informationItemIE-RL-DeletionRqst PRESENCE mandatory }
}

RL-informationItem-RL-DeletionRqst ::= SEQUENCE {
   rL-ID          RL-ID,
   iE-Extensions        ProtocolExtensionContainer { { RL-informationItem-RL-DeletionRqst-ExtIEs} }  OPTIONAL,
   ...
}

RL-informationItem-RL-DeletionRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
   ...
}

-- **********************************************
-- RADIO LINK DELETION RESPONSE
-- ************************************************************
RadioLinkDeletionResponse ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkDeletionResponse-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkDeletionResponse-Extensions}} OPTIONAL,
...}

RadioLinkDeletionResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory },
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
...}

RadioLinkDeletionResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- DL POWER CONTROL REQUEST FDD
-- ************************************************************
DL-PowerControlRequest ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{DL-PowerControlRequest-IEs}},
  protocolExtensions ProtocolExtensionContainer {{DL-PowerControlRequest-Extensions}} OPTIONAL,
...}

DL-PowerControlRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory },
  { ID id-PowerAdjustmentType CRITICALITY ignore TYPE PowerAdjustmentType PRESENCE mandatory },
  { ID id-DLReferencePower CRITICALITY ignore TYPE DL-Power PRESENCE conditional },
  -- This IE shall be present if the Adjustment Type IE is set to 'Common'
  -- This IE shall be present if the Adjustment Type IE is set to 'Individual'
  { ID id-MaxAdjustmentStep CRITICALITY ignore TYPE MaxAdjustmentStep PRESENCE conditional },
  -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
  { ID id-AdjustmentPeriod CRITICALITY ignore TYPE AdjustmentPeriod PRESENCE conditional },
  -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
  { ID id-AdjustmentRatio CRITICALITY ignore TYPE ScaledAdjustmentRatio PRESENCE conditional },
  -- This IE shall be present if the Adjustment Type IE is set to 'Common' or 'Individual'
  ...
}

DL-PowerControlRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

--- DL-ReferencePowerInformationItemIE-DL-PC-Rqst NBAP-PROTOCOL-IES ::= {
  { ID id-DL-ReferencePowerInformationItem-DL-PC-Rqst CRITICALITY ignore TYPE DL-ReferencePowerInformationItem-DL-PC-Rqst PRESENCE mandatory }
}

--- DL-ReferencePowerInformationItem-DL-PC-Rqst ::= SEQUENCE {
  rL-ID RL-ID,
  dl-ReferencePower DL-Power,
  iE-Extensions ProtocolExtensionContainer { { DL-ReferencePowerInformationItem-DL-PC-Rqst-ExtIEs } }
  OPTIONAL,
  ...
}

--- DL-ReferencePowerInformationItem-DL-PC-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- ******************************************************************************
--
-- DL POWER TIMESLOT CONTROL REQUEST TDD
--
-- ******************************************************************************

--- DL-PowerTimeslotControlRequest ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{DL-PowerTimeslotControlRequest-IEs}},
  protocolExtensions ProtocolExtensionContainer {{DL-PowerTimeslotControlRequest-Extensions}} OPTIONAL,
  ...
}

--- DL-PowerTimeslotControlRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
  { ID id-TimeslotISCPInfo CRITICALITY ignore TYPE DL-TimeslotISCPInfo PRESENCE optional },
  -- Mandatory for 3.84Mcps TDD and 7.68Mcps TDD, Not Applicable to 1.28Mcps TDD
  ...
}

--- DL-PowerTimeslotControlRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-DL-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD CRITICALITY ignore EXTENSION DL-TimeslotISCPInfoList-LCR PRESENCE optional }|
  -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
  { ID id-PrimaryCCPCH-RSCP-DL-PC-RqstTDD CRITICALITY ignore EXTENSION PrimaryCCPCH-RSCP PRESENCE optional }|
  { ID id-PrimaryCCPCH-RSCP-Delta CRITICALITY ignore EXTENSION PrimaryCCPCH-RSCP-Delta PRESENCE optional },
  ...
}

-- ******************************************************************************
--
-- DEDICATED MEASUREMENT INITIATION REQUEST
--
--
DedicatedMeasurementInitiationRequest ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container {{DedicatedMeasurementInitiationRequest-IEs}},
    protocolExtensions ProtocolExtensionContainer {{DedicatedMeasurementInitiationRequest-Extensions}}  OPTIONAL,
    ...
}

DedicatedMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory } |
    { ID id-MeasurementID CRITICALITY reject TYPE MeasurementID PRESENCE mandatory } |
    { ID id-DedicatedMeasurementObjectType-DM-Rqst CRITICALITY reject TYPE DedicatedMeasurementObjectType-DM-Rqst PRESENCE mandatory } |
    { ID id-DedicatedMeasurementType CRITICALITY reject TYPE DedicatedMeasurementType PRESENCE mandatory } |
    { ID id-MeasurementFilterCoefficient CRITICALITY reject TYPE MeasurementFilterCoefficient PRESENCE optional } |
    { ID id-ReportCharacteristics CRITICALITY reject TYPE ReportCharacteristics PRESENCE mandatory } |
    { ID id-CFNReportingIndicator CRITICALITY reject TYPE FNReportingIndicator PRESENCE mandatory } |
    { ID id-CFN CRITICALITY reject TYPE CFN PRESENCE optional }, ...
}

DedicatedMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-NumberOfReportedCellPortions CRITICALITY reject EXTENSION NumberOfReportedCellPortions PRESENCE conditional }|
    -- The IE shall be present if the Dedicated Measurement Type IE is set to 'Best Cell Portions', FDD only.
    { ID id-MeasurementRecoveryBehavior CRITICALITY ignore EXTENSION MeasurementRecoveryBehavior PRESENCE optional }|
    { ID id-AlternativeFormatReportingIndicator CRITICALITY ignore EXTENSION AlternativeFormatReportingIndicator PRESENCE optional }|
    { ID id-NumberOfReportedCellPortionsLCR CRITICALITY reject EXTENSION NumberOfReportedCellPortionsLCR PRESENCE conditional },
    -- The IE shall be present if the Dedicated Measurement Type IE is set to 'Best Cell Portions LCR', 1.28Mcps only.
    ...
}

DedicatedMeasurementObjectType-DM-Rqst ::= CHOICE {
    rL       RL-DM-Rqst, 
    rLS       RL-Set-DM-Rqst,   -- for FDD only
    all-RL      AllRL-DM-Rqst, 
    all-RLS      AllRL-Set-DM-Rqst,   -- for FDD only
    ...
}

RL-DM-Rqst ::= SEQUENCE {
    rL-InformationList     RL-InformationList-DM-Rqst, 
    iE-Extensions ProtocoeExtensionContainer { { RLItem-DM-Rqst-ExtIEs } }  OPTIONAL, 
    ...
}
RLItem-DM-Rqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...  
}

RL-InformationList-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rqst }}

RL-InformationItemIE-DM-Rqst NBAP-PROTOCOL-IEs ::= {
  { ID id-RL-InformationItem-DM-Rqst CRITICALITY reject TYPE RL-InformationItem-DM-Rqst PRESENCE mandatory }
}

RL-InformationItem-DM-Rqst ::= SEQUENCE {
  rl-ID RL-ID,
  dpCH-ID DPCH-ID OPTIONAL, -- for TDD only
  iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-DM-Rqst-ExtIEs } } OPTIONAL,
  ...  
}

RL-InformationItem-DM-Rqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PUSCH-Info-DM-Rqst CRITICALITY reject EXTENSION PUSCH-Info-DM-Rqst PRESENCE optional}|
    -- TDD only
  { ID id-HSSICH-Info-DM-Rqst CRITICALITY reject EXTENSION HSSICH-Info-DM-Rqst PRESENCE optional}|
    -- TDD only
  { ID id-DPCH-ID768-DM-Rqst CRITICALITY reject EXTENSION DPCH-ID768 PRESENCE optional}|  -- 7.68Mcps TDD only
  { ID id-HSSICH-InfoExt-DM-Rqst CRITICALITY reject EXTENSION HSSICH-InfoExt-DM-Rqst PRESENCE optional},
    -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
  ...  
}

PUSCH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID

HSSICH-Info-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF HS-SICH-ID

HSSICH-InfoExt-DM-Rqst ::= SEQUENCE (SIZE (1..maxNrOfHSSICHs)) OF Extended-HS-SICH-ID
  -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31

RL-Set-DM-Rqst ::= SEQUENCE {
  rl-Set-InformationList-DM-Rqst RL-Set-InformationList-DM-Rqst,
  iE-Extensions ProtocolExtensionContainer { { RL-SetItem-DM-Rqst-ExtIEs } } OPTIONAL,
  ...  
}

RL-SetItem-DM-Rqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...  
}

RL-Set-InformationList-DM-Rqst ::= SEQUENCE (SIZE(1..maxNrOfRLSets)) OF RL-Set-InformationItem-DM-Rqst

RL-Set-InformationItem-DM-Rqst ::= SEQUENCE {
  rl-Set-ID RL-Set-ID,
  iE-Extensions ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rqst-ExtIEs } } OPTIONAL,
  ...  
}
DedicatedMeasurementInitiationResponse ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{DedicatedMeasurementInitiationResponse-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{DedicatedMeasurementInitiationResponse-Extensions}}  OPTIONAL,
  ...}

DedicatedMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID    CRITICALITY ignore TYPE CRNC-CommunicationContextID  PRESENCE mandatory } | |
  { ID id-MeasurementID       CRITICALITY ignore TYPE MeasurementID    PRESENCE mandatory } | |
  { ID id-DedicatedMeasurementObjectType-DM-Rsp CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rsp  PRESENCE optional } | |
  { ID id-CriticalityDiagnostics     CRITICALITY ignore TYPE CriticalityDiagnostics  PRESENCE optional },
  ...}

DedicatedMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MeasurementRecoverySupportIndicator  CRITICALITY ignore EXTENSION MeasurementRecoverySupportIndicator  PRESENCE optional},
  ...}

DedicatedMeasurementObjectType-DM-Rsp ::= CHOICE {
  rL       RL-DM-Rsp,
  rLS       RL-Set-DM-Rsp,  -- for FDD only
  all-RL      RL-DM-Rsp,
  all-RLS      RL-Set-DM-Rsp,  -- for FDD only
  ...}

RL-DM-Rsp ::= SEQUENCE {
  rlInformationList-DM-Rsp    RL-InformationList-DM-Rsp,
  iE-Extensions      ProtocolExtensionContainer { { RLItem-DM-Rsp-ExtIEs } }  OPTIONAL,
  ...}

RLItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

RL-InformationList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIR-DM-Rsp }}
RL-InformationItemDM-Rsp NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-DM-Rsp CRITICALITY ignore TYPE RL-InformationItem-DM-Rsp PRESENCE mandatory }
}

RL-InformationItem-DM-Rsp ::= SEQUENCE {
    rl-ID RL-ID,
    dPCH-ID DPCH-ID OPTIONAL, -- for TDD only
    dedicatedMeasurementValue DedicatedMeasurementValue,
    cFN CFN OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-DM-Rsp-ExtIEs } } OPTIONAL,
    ...
}

RL-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-PUSCH-Info-DM-Rsp CRITICALITY reject EXTENSION PUSCH-Info-DM-Rsp PRESENCE optional }|
    -- TDD only
    -- This PUSCH Information is the for the first PUSCH repetition, PUSCH information for PUSCH repetitions 2 and on, should be defined in Multiple-PUSCH-InfoList-DM-Rsp.
    { ID id-HSSICH-Info-DM-Rsp CRITICALITY reject EXTENSION HS-SICH-ID PRESENCE optional }|
    -- TDD only
    { ID id-multiple-DedicatedMeasurementValueList-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp PRESENCE optional }|
    -- Applicable to 3.84Mcps TDD only. This list of dedicated measurement values is used for the 2nd and beyond measurements of a RL when multiple dedicated measurement values need to be reported.
    { ID id-multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only. This list of dedicated measurement values is used for the 2nd and beyond measurements of a RL when multiple dedicated measurement values need to be reported.
    { ID id-multiple-PUSCH-InfoList-DM-Rsp CRITICALITY ignore EXTENSION Multiple-PUSCH-InfoList-DM-Rsp PRESENCE optional }|
    -- TDD only, This PUSCH information is the for the 2nd and beyond PUSCH repetitions.
    { ID id-multiple-HSSICHMeasurementValueList-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-HSSICHMeasurementValueList-TDD-DM-Rsp PRESENCE optional }|
    -- TDD only, This list of HS-SICH measurement values is used for the 2nd and beyond measurements of a RL when multiple HS-SICH measurement values need to be reported.
    { ID id-DPCH-ID768-DM-Rsp CRITICALITY reject EXTENSION DPCH-ID768 PRESENCE optional }|
    -- 7.68Mcps TDD only
    { ID id-multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp CRITICALITY ignore EXTENSION Multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp PRESENCE optional }|
    -- Applicable to 7.68Mcps TDD only. This list of dedicated measurement values is used for the 2nd and beyond measurements of a RL when multiple dedicated measurement values need to be reported.
    { ID id-Extended-HS-SICH-ID CRITICALITY reject EXTENSION Extended-HS-SICH-ID PRESENCE optional }|
    -- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31
    ...
}

PUSCH-Info-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-ID

Multiple-PUSCH-InfoList-DM-Rsp ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs-1)) OF Multiple-PUSCH-InfoListIE-DM-Rsp
-- Includes the 2nd through the max number of PUSCH information repetitions.

Multiple-PUSCH-InfoListIE-DM-Rsp ::= SEQUENCE {
    pUSCH-ID PUSCH-ID OPTIONAL,
    dedicatedMeasurementValue DedicatedMeasurementValue OPTIONAL,
    ...
iE-Extensions

ProtocolExtensionContainer { { Multiple-PUSCH-InfoListIE-DM-Rsp-ExtIEs} } OPTIONAL,

}

Multiple-PUSCH-InfoListIE-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

}

Multiple-DedicatedMeasurementValueList-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHsPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp

Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE {

dPCH-ID            DPCH-ID,

dedicatedMeasurementValue DedicatedMeasurementValue,
iE-Extensions      ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs} } OPTIONAL,

...

}

Multiple-DedicatedMeasurementValueItem-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

}

Multiple-DedicatedMeasurementValueList-LCR-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfDPCHsLCRPerRL-1)) OF Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp

Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp ::= SEQUENCE {

dPCH-ID            DPCH-ID,

dedicatedMeasurementValue DedicatedMeasurementValue,
iE-Extensions      ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp-ExtIEs} } OPTIONAL,

...

}

Multiple-DedicatedMeasurementValueItem-LCR-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

}

Multiple-HSSICHMeasurementValueList-TDD-DM-Rsp ::= SEQUENCE (SIZE (1.. maxNrOfHSSICHs-1)) OF Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp

Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp ::= SEQUENCE {

hsSICH-ID       HS-SICH-ID,

dedicatedMeasurementValue DedicatedMeasurementValue,
iE-Extensions      ProtocolExtensionContainer { { Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs} } OPTIONAL,

...

}

Multiple-HSSICHMeasurementValueItem-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

{ ID id-Extended-HS-SICH-ID CRITICALITY ignore EXTENSION Extended-HS-SICH-ID PRESENCE optional},

-- 1.28Mcps TDD only, used if the HS-SICH identity has a value larger than 31

...

}
Multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp ::= SEQUENCE { SIZE (1..maxNrOfDPCHs768PerRL-1) } OF Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp

Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp ::= SEQUENCE { 
dPCH-ID768    DPCH-ID768,
dedicatedMeasurementValue   DedicatedMeasurementValue,
iE-Extensions    ProtocolExtensionContainer { { Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp-ExtIEs } } OPTIONAL,
... }

Multiple-DedicatedMeasurementValueItem-768-TDD-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
... }

RL-Set-DM-Rsp ::= SEQUENCE { 
  RL-Set-InformationList-DM-Rsp  RL-Set-InformationList-DM-Rsp,
iE-Extensions    ProtocolExtensionContainer { { RL-SetItem-DM-Rsp-ExtIEs } }  OPTIONAL,
... }

RL-SetItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
... }

RL-Set-InformationList-DM-Rsp ::= SEQUENCE { SIZE (1..maxNrOfRLSets) } OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-DM-Rsp } }

RL-Set-InformationItemIE-DM-Rsp NBAP-PROTOCOL-IES ::= {
  { ID id-RL-Set-InformationItem-DM-Rsp  CRITICALITY ignore  TYPE RL-Set-InformationItem-DM-Rsp PRESENCE mandatory}

RL-Set-InformationItem-DM-Rsp ::= SEQUENCE { 
rL-Set-ID      RL-Set-ID,
dedicatedMeasurementValue   DedicatedMeasurementValue,
cFN        CFN     OPTIONAL,
iE-Extensions    ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rsp-ExtIEs } } OPTIONAL,
... }

RL-Set-InformationItem-DM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
... }

--- ************************************************************
--- DEDICATED MEASUREMENT INITIATION FAILURE
--- ************************************************************

DedicatedMeasurementInitiationFailure ::= SEQUENCE {  protocolIEs    ProtocolIE-Container  {{DedicatedMeasurementInitiationFailure-IEs}},
  protocolExtensions  ProtocolExtensionContainer  {{DedicatedMeasurementInitiationFailure-Extensions}}  OPTIONAL,
DedicatedMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID  CRITICALITY ignore TYPE CRNC-CommunicationContextID  PRESENCE mandatory } |
  { ID id-MeasurementID     CRITICALITY ignore TYPE MeasurementID    PRESENCE mandatory } |
  { ID id-Cause        CRITICALITY ignore TYPE Cause    PRESENCE mandatory } |
  { ID id-CriticalityDiagnostics    CRITICALITY ignore TYPE CriticalityDiagnostics    PRESENCE optional },
...

DedicatedMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...

-- *******************************************************
-- DEDICATED MEASUREMENT REPORT
-- *******************************************************

DedicatedMeasurementReport ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container {{DedicatedMeasurementReport-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{DedicatedMeasurementReport-Extensions}}  OPTIONAL,
...

DedicatedMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID  CRITICALITY ignore TYPE CRNC-CommunicationContextID  PRESENCE mandatory } |
  { ID id-MeasurementID     CRITICALITY ignore TYPE MeasurementID    PRESENCE mandatory } |
  { ID id-DedicatedMeasurementObjectType-DM-Rprt CRITICALITY ignore TYPE DedicatedMeasurementObjectType-DM-Rprt  PRESENCE mandatory },
...

DedicatedMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MeasurementRecoveryReportingIndicator CRITICALITY ignore EXTENSION MeasurementRecoveryReportingIndicator  PRESENCE optional },
...

DedicatedMeasurementObjectType-DM-Rprt ::= CHOICE {
  rL         RL-DM-Rprt,
  rLS         RL-Set-DM-Rprt,   -- for FDD only
  all-RL      RL-DM-Rprt,
  all-RLS     RL-Set-DM-Rprt,   -- for FDD only
  ...
}

RL-DM-Rprt ::= SEQUENCE {
3GPP TS 25.433 version 9.5.0 Release 9

RL-InformationList-DM-Rprt := SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-DM-Rprt }}

RL-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES := {
  { ID id-RL-InformationItem-DM-Rprt CRITICALITY ignore TYPE RL-InformationItem-DM-Rprt PRESENCE mandatory }
}

RL-InformationItem-DM-Rprt := SEQUENCE { RL-ID RL-ID,
  dPCH-ID DPCH-ID OPTIONAL, -- for TDD only
  dedicatedMeasurementValueInformation DedicatedMeasurementValueInformation,
  iE-Extensions ProtocolExtensionContainer { { RL-InformationItem-DM-Rprt-ExtIEs } } OPTIONAL,
  ...
}

RL-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PUSCH-Info-DM-Rprt ::= SEQUENCE (SIZE (0..maxNrOfPUSCHs)) OF PUSCH-ID

Multiple-PUSCH-InfoList-DM-Rprt ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs-1)) OF Multiple-PUSCH-InfoListIE-DM-Rprt
-- Includes the 2nd through the max number of PUSCH information repetitions.

Multiple-PUSCH-InfoListIE-DM-Rprt ::= SEQUENCE { PUSCH-ID PUSCH-ID OPTIONAL,
  dedicatedMeasurementValue DedicatedMeasurementValue OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Multiple-PUSCH-InfoListIE-DM-Rprt-ExtIEs } } OPTIONAL,
  ...
}

Multiple-PUSCH-InfoListIE-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
RL-Set-DM-Rprt ::= SEQUENCE {
    rL-Set-InformationList-DM-Rprt  RL-Set-InformationList-DM-Rprt,
    iE-Extensions  ProtocolExtensionContainer { { RL-SetItem-DM-Rprt-ExtIEs } }  OPTIONAL,
    ...  
}

RL-SetItem-DM-Rprt-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...  
}

RL-Set-InformationList-DM-Rprt ::= SEQUENCE {SIZE (1..maxNrOfRLSets)} OF ProtocolIE-Single-Container { { RL-Set-InformationItemIE-DM-Rprt } }

RL-Set-InformationItemIE-DM-Rprt NBAP-PROTOCOL-IES ::= {
    ID id-RL-Set-InformationItem-DM-Rprt  CRITICALITY ignore  TYPE RL-Set-InformationItem-DM-Rprt  PRESENCE mandatory  
}

RL-Set-InformationItem-DM-Rprt ::= SEQUENCE {
    rL-Set-ID  RL-Set-ID,
    dedicatedMeasurementValueInformation  DedicatedMeasurementValueInformation,
    iE-Extensions  ProtocolExtensionContainer { { RL-Set-InformationItem-DM-Rprt-ExtIEs } }  OPTIONAL,
    ...  
}

RL-Set-InformationItem-DM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...  
}

-- ****************************
-- DEDICATED MEASUREMENT TERMINATION REQUEST
-- ****************************

DedicatedMeasurementTerminationRequest ::= SEQUENCE {
    protocolIEs ProtocolIE-Container { { DedicatedMeasurementTerminationRequest-IEs } },
    protocolExtensions ProtocolExtensionContainer { { DedicatedMeasurementTerminationRequest-Extensions } }  OPTIONAL,
    ...  
}

DedicatedMeasurementTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
    ID id-NodeB-CommunicationContextID  CRITICALITY ignore  TYPE NodeB-CommunicationContextID  PRESENCE mandatory  |
    ID id-MeasurementID  CRITICALITY ignore  TYPE MeasurementID  PRESENCE mandatory  
}

DedicatedMeasurementTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...  
}

-- ****************************
--
DedicatedMeasurementFailureIndication ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{DedicatedMeasurementFailureIndication-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{DedicatedMeasurementFailureIndication-Extensions}}  OPTIONAL,

    ...}

DedicatedMeasurementFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CRNC-CommunicationContextID  CRITICALITY  ignore  TYPE CRNC-CommunicationContextID  PRESENCE mandatory },
    { ID id-MeasurementID     CRITICALITY  ignore  TYPE MeasurementID  PRESENCE mandatory },
    { ID id-Cause       CRITICALITY  ignore  TYPE Cause    PRESENCE mandatory },
    ...}

DedicatedMeasurementFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {}
RL-RL-FailureInd ::= SEQUENCE {
  rL-InformationList-RL-FailureInd,  
iE-Extensions ProtocolExtensionContainer ( { RLItem-RL-FailureInd-ExtIEs } )  OPTIONAL,
  ...
}

RLItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container ( { RL-InformationItemIE-RL-FailureInd } )

RL-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-RL-FailureInd CRITICALITY ignore  TYPE RL-InformationItemIE-RL-FailureInd PRESENCE mandatory }
}

RL-InformationItem-RL-FailureInd ::= SEQUENCE {
  rL-ID RL-ID, 
  cause Cause, 
  iE-Extensions ProtocolExtensionContainer ( { RL-InformationItem-RL-FailureInd-ExtIEs } )  OPTIONAL,  
  ...
}

RL-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-RL-FailureInd ::= SEQUENCE {
  rL-Set-InformationList-RL-FailureInd,  
iE-Extensions ProtocolExtensionContainer ( { RL-SetItem-RL-FailureInd-ExtIEs } )  OPTIONAL,
  ...
}

RL-SetItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-InformationList-RL-FailureInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container ( { RL-Set-InformationItemIE-RL-FailureInd } )

RL-Set-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
  { ID id-RL-Set-InformationItem-RL-FailureInd CRITICALITY ignore  TYPE RL-Set-InformationItemIE-RL-FailureInd PRESENCE mandatory }
}

RL-Set-InformationItem-RL-FailureInd ::= SEQUENCE {
  rL-Set-ID RL-Set-ID, 
  cause Cause, 
  iE-Extensions ProtocolExtensionContainer ( { RL-SetInformationItem-RL-FailureInd-ExtIEs } )  OPTIONAL,  
  ...
}
RL-Set-InformationItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

CCTrCH-RL-FailureInd ::= SEQUENCE {
  rL-ID         RL-ID,
  cCTrCH-InformationList-RL-FailureInd  CCTrCH-InformationList-RL-FailureInd,
  iE-Extensions ProtocolExtensionContainer {{ CCTrCHItem-RL-FailureInd-ExtIEs } }  OPTIONAL,
  ... 
}

CCTrCHItem-RL-FailureInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

CCTrCH-InformationList-RL-FailureInd ::= SEQUENCE {SIZE (1..maxNrOfCCTrCHs)} Of ProtocolIE-Single-Container {{ CCTrCH-InformationItemIE-RL-FailureInd}}

CCTrCH-InformationItemIE-RL-FailureInd NBAP-PROTOCOL-IES ::= {
  { ID id-CCTrCH-InformationItem-RL-FailureInd  CRITICALITY ignore TYPE CCTrCH-InformationItem-RL-FailureInd
      PRESENCE mandatory }
}

-- ************************************************************
-- RADIO LINK PREEMPTION REQUIRED INDICATION
-- *************************************************************

RadioLinkPreemptionRequiredIndication ::= SEQUENCE {
  protocolIEs                     ProtocolIE-Container       {{RadioLinkPreemptionRequiredIndication-IEs}},
  protocolExtensions              ProtocolExtensionContainer {{RadioLinkPreemptionRequiredIndication-Extensions}}                   OPTIONAL,
  ... 
}

RadioLinkPreemptionRequiredIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID     CRITICALITY ignore TYPE CRNC-CommunicationContextID    PRESENCE mandatory } |
  { ID id-RL-InformationList-RL-PreemptRequiredInd CRITICALITY ignore TYPE RL-InformationList-RL-PreemptRequiredInd  PRESENCE optional },
  ... 
}
RadioLinkPreemptionRequiredIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationList-RL-PreemptRequiredInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { RL-InformationItemIE-RL-PreemptRequiredInd }

RL-InformationItemIE-RL-PreemptRequiredInd NBAP-PROTOCOL-IES ::= {
  ID id-RL-InformationItem-RL-PreemptRequiredInd CRITICALITY ignore TYPE RL-InformationItem-RL-PreemptRequiredInd PRESENCE mandatory },

RL-InformationItem-RL-PreemptRequiredInd ::= SEQUENCE {
  rL-ID RL-ID,
  iE-Extensions ProtocolExtensionContainer { RL-InformationItem-RL-PreemptRequiredInd-ExtIEs } OPTIONAL,
  ...
}

RL-InformationItem-RL-PreemptRequiredInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- ************************************************************
-- -- RADIO LINK RESTORE INDICATION
-- ************************************************************

RadioLinkRestoreIndication ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {RadioLinkRestoreIndication-IEs},
  protocolExtensions ProtocolExtensionContainer {RadioLinkRestoreIndication-Extensions} OPTIONAL,
  ...
}

RadioLinkRestoreIndication-IEs NBAP-PROTOCOL-IES ::= {
  ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory |
  ID id-Reporting-Object-RL-RestoreInd CRITICALITY ignore TYPE Reporting-Object-RL-RestoreInd PRESENCE mandatory,
  ...
}

RadioLinkRestoreIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Reporting-Object-RL-RestoreInd ::= CHOICE {
  rL RL-RL-RestoreInd, --TDD only
  rL-Set RL-Set-RL-RestoreInd, --FDD only
  ...
  cCTrCH CCTrCH-RL-RestoreInd --TDD only
RL-RL-RestoreInd ::= SEQUENCE {
  rL-InformationList-RL-RestoreInd,  RL-InformationList-RL-RestoreInd,
  iE-Extensions  ProtocolExtensionContainer {{ RLItem-RL-RestoreInd-ExtIEs } }  OPTIONAL,
  ...  
}

RLItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-InformationItemIE-RL-RestoreInd}}

RL-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-RL-RestoreInd  CRITICALITY ignore  TYPE RL-InformationItem-RL-RestoreInd  PRESENCE mandatory}
}

RL-InformationItem-RL-RestoreInd ::= SEQUENCE {
  rL-ID  RL-ID,
  iE-Extensions  ProtocolExtensionContainer {{ RLInformationItem-RL-RestoreInd-ExtIEs } }  OPTIONAL,
  ...  
}

RL-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-RL-RestoreInd ::= SEQUENCE {
  rL-Set-InformationList-RL-RestoreInd,  RL-Set-InformationList-RL-RestoreInd,
  iE-Extensions  ProtocolExtensionContainer {{ RL-SetItem-RL-RestoreInd-ExtIEs } }  OPTIONAL,
  ...  
}

RL-SetItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-Set-InformationList-RL-RestoreInd ::= SEQUENCE (SIZE (1..maxNrOfRLSets)) OF ProtocolIE-Single-Container {{ RL-Set-InformationItemIE-RL-RestoreInd }}

RL-Set-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
  { ID id-RL-Set-InformationItem-RL-RestoreInd  CRITICALITY ignore  TYPE RL-Set-InformationItem-RL-RestoreInd  PRESENCE mandatory }
}

RL-Set-InformationItem-RL-RestoreInd ::= SEQUENCE {
  rL-Set-ID  RL-Set-ID,
  iE-Extensions  ProtocolExtensionContainer {{ RL-Set-InformationItem-RL-RestoreInd-ExtIEs } }  OPTIONAL,
  ...  
}

RL-Set-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
ETSI

CCTrCH-RL-RestoreInd ::= SEQUENCE {
  rL-ID         RL-ID,  cCCTrCH-InformationList-RL-RestoreInd,
  iE-Extensions ProtocolExtensionContainer {{ CCTrCHItem-RL-RestoreInd-ExtIEs }},
  ... }  OPTIONAL,

CCTrCHItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

CCTrCH-InformationList-RL-RestoreInd ::= SEQUENCE {SIZE (1..maxNrOfCCTrCHs)} OF ProtocolIE-Single-Container {{ CCTrCH-InformationItemIE-RL-RestoreInd}}

CCTrCH-InformationItemIE-RL-RestoreInd NBAP-PROTOCOL-IES ::= {
  { ID id-CCTrCH-InformationItemIE-RL-RestoreInd CRITICALITY ignore TYPE CCTrCH-InformationItemIE-RL-RestoreInd PRESENCE mandatory }
}

CCTrCH-InformationItem-RL-RestoreInd ::= SEQUENCE {
  cCCTrCH-ID     CCTrCH-ID,  iE-Extensions ProtocolExtensionContainer {{ CCTrCH-InformationItem-RL-RestoreInd-ExtIEs }},
  ... }  OPTIONAL,

CCTrCH-InformationItem-RL-RestoreInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

-- **************************************************
-- COMPRESSED MODE COMMAND FDD
-- **************************************************

CompressedModeCommand ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container {{CompressedModeCommand-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CompressedModeCommand-Extensions}},
  ... }  OPTIONAL,

CompressedModeCommand-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory }
  | { ID id-Active-Pattern-Sequence-Information CRITICALITY ignore TYPE Active-Pattern-Sequence-Information PRESENCE mandatory }
  ... }
CompressedModeCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
  
  -- ***************************************************************
  -- ERROR INDICATION
  -- ***************************************************************

ErrorIndication ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{ErrorIndication-IEs}},
  protocolExtensions ProtocolExtensionContainer {{ErrorIndication-Extensions}} OPTIONAL,
  ...
}

ErrorIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE optional } |
  { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE optional } |
  { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE optional } |
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

ErrorIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
  
  -- ***************************************************************
  -- PRIVATE MESSAGE
  -- ***************************************************************

PrivateMessage ::= SEQUENCE {
  privateIEs PrivateIE-Container {{PrivateMessage-IEs}},
  ...
}

PrivateMessage-IEs NBAP-PRIVATE-IES ::= {
  ...

  -- ***************************************************************
  -- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST FDD
  -- ***************************************************************

PhysicalSharedChannelReconfigurationRequestFDD ::= SEQUENCE {  protocolIEs  ProtocolIE-Container {{PhysicalSharedChannelReconfigurationRequestFDD-IEs}},  protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationRequestFDD-Extensions}} OPTIONAL,  ... }  


HSDPA-And-EDCH-CellPortion-InformationList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRqst

HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRqst ::= SEQUENCE {
  cellPortionID              CellPortionID,
  hS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst      DL-ScramblingCode    OPTIONAL,
  hS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst      HS-PDSCH-FDD-Code-Information  OPTIONAL,
  hS-SCCH-FDD-Code-Information-PSCH-ReconfRqst      HS-SCCH-FDD-Code-Information  OPTIONAL,
  hS-PDSCH-HS-SCCH-E-AGCH-E-RGCH-E-HICH-MaxPower-PSCH-ReconfRqst  MaximumTransmissionPower  OPTIONAL,
  e-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code        E-RGCH-E-HICH-FDD-Code-Information  OPTIONAL,
  e-AGCH-FDD-Code-Information                           E-AGCH-FDD-Code-Information  OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...                                                      }

HSDPA-And-EDCH-CellPortion-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...                                                      }

-- **************************************************************
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD
-- **************************************************************

PhysicalSharedChannelReconfigurationRequestTDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{PhysicalSharedChannelReconfigurationRequestTDD-IEs}},
  protocolExtensions    ProtocolExtensionContainer  {{PhysicalSharedChannelReconfigurationRequestTDD-Extensions}} OPTIONAL,
  ...                                                      }

PhysicalSharedChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID         CRITICALITY reject TYPE C-ID      PRESENCE mandatory }|
  { ID id-SFN          CRITICALITY reject TYPE SFN      PRESENCE optional }|
  { ID id-PDSCHSets-AddList-PSCH-ReconfRqst  CRITICALITY reject TYPE PDSCHSets-AddList-PSCH-ReconfRqst  PRESENCE optional }|
  { ID id-PDSCHSets-ModifyList-PSCH-ReconfRqst  CRITICALITY reject TYPE PDSCHSets-ModifyList-PSCH-ReconfRqst  PRESENCE optional }|
  { ID id-PDSCHSets-DeleteList-PSCH-ReconfRqst  CRITICALITY reject TYPE PDSCHSets-DeleteList-PSCH-ReconfRqst  PRESENCE optional }|
  { ID id-PUSCHSets-AddList-PSCH-ReconfRqst  CRITICALITY reject TYPE PUSCHSets-AddList-PSCH-ReconfRqst  PRESENCE optional }|
  { ID id-PUSCHSets-ModifyList-PSCH-ReconfRqst  CRITICALITY reject TYPE PUSCHSets-ModifyList-PSCH-ReconfRqst  PRESENCE optional }|
  { ID id-PUSCHSets-DeleteList-PSCH-ReconfRqst  CRITICALITY reject TYPE PUSCHSets-DeleteList-PSCH-ReconfRqst  PRESENCE optional },
  ...                                                      }

PhysicalSharedChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst CRITICALITY reject EXTENSION HS-PDSCH-TDD-Information-PSCH-ReconfRqst  PRESENCE optional }|
  ...                                                      }

ETSI
{ ID id-ConfigurationGenerationID CRITICALITY reject EXTENSION ConfigurationGenerationID PRESENCE optional } | { ID id-E-PUCH-Information-PSCH-ReconfRqst CRITICALITY reject EXTENSION E-PUCH-Information-PSCH-ReconfRqst PRESENCE optional } | { ID id-E-AGCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY reject EXTENSION E-AGCH-Resource-Pool-PSCH-ReconfRqst PRESENCE optional } | { ID id-E-HICH-Information-PSCH-ReconfRqst CRITICALITY reject EXTENSION E-HICH-Information-PSCH-ReconfRqst PRESENCE optional }

-- Applicable to 3.84Mcps TDD or 7.68Mcps TDD.


-- Applicable to 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD.

{ ID id-Maximum-Target-ReceivedTotalWideBandPower-LCR CRITICALITY reject EXTENSION Maximum-Target-ReceivedTotalWideBandPower-LCR PRESENCE optional } | { ID id-HSDSCH-Common-System-InformationLCR CRITICALITY reject EXTENSION HSDSCH-Common-System-InformationLCR PRESENCE optional } | { ID id-Common-MACFlows-to-DeleteLCR CRITICALITY reject EXTENSION Common-MACFlows-to-DeleteLCR PRESENCE optional } | { ID id-HSDSCH-Paging-System-InformationLCR CRITICALITY reject EXTENSION HSDSCH-Paging-System-InformationLCR PRESENCE optional }
PDSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-AddItem-PSCH-ReconfRqst

PDSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID         PDSCHSet-ID,
    pDSCH-InformationList      PDSCH-Information-AddList-PSCH-ReconfRqst  OPTIONAL, -- Mandatory for 3.84Mcps TDD.
    Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD
    iE-Extensions        ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
    ...
}

PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ID id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst  CRITICALITY reject  TYPE  PDSCH-Information-AddItem-PSCH-ReconfRqst
    PRESENCE optional}, -- Mandatory for 3.84Mcps TDD or 7.68Mcps TDD.
    Not Applicable to 1.28Mcps TDD.
    ID id-PDSCH-AddInformation-768-PSCH-ReconfRqst Ext CRITICALITY reject EXTENSION PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst
    PRESENCE optional}, -- Mandatory for 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
    ...
}

PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}
-- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD

PDSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IE ::= {
    ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst  CRITICALITY reject TYPE  PDSCH-Information-AddItem-PSCH-ReconfRqst
    PRESENCE mandatory}
PDSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod  RepetitionPeriod,
  repetitionLength  RepetitionLength,
  tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
  dL-Timeslot-InformationAddList-PSCH-ReconfRqst  DL-Timeslot-InformationAddList-PSCH-ReconfRqst,
  iE-Extensions  ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot  TimeSlot,
  midambleShiftAndBurstType  MidambleShiftAndBurstType,
  tFCI-Presence  TFCI-Presence,
  dL-Code-InformationAddList-PSCH-ReconfRqst  DL-Code-InformationAddList-PSCH-ReconfRqst,
  iE-Extensions  ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-PSCH-ReconfRqst

DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID  PDSCH-ID,
  tdd-ChannelisationCode  TDD-ChannelisationCode,
  iE-Extensions  ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod  RepetitionPeriod,
  repetitionLength  RepetitionLength,
  tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
  dL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst  DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
  iE-Extensions  ProtocolExtensionContainer { {PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlotLCR TimeSlotLCR,
  midambleShiftLCR MidambleShiftLCR,
  tFCI-Presence TFCI-Presence,
  dl-Code-InformationAddList-LCR-PSCH-ReconfRqst DL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer {{DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs}} OPTIONAL,
  ...
}

DL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID PDSCH-ID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  iE-Extensions ProtocolExtensionContainer {{DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs}} OPTIONAL,
  ...
}

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  dl-Timeslot-InformationAddList-768-PSCH-ReconfRqst DL-Timeslot-InformationAddList-768-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer {{PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs}} OPTIONAL,
  ...
}

PDSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Timeslot-InformationAddList-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot768 TimeSlot768,
  midambleShift768 MidambleShift768,
  tFCI-Presence TFCI-Presence,
  dl-Code-InformationAddList-768-PSCH-ReconfRqst DL-Code-InformationAddList-768-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer {{DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs}} OPTIONAL,
  ...
}

DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
timeSlot        TimeSlot,
midambleShiftAndBurstType768   MidambleShiftAndBurstType768,
tFCI-Presence        TFCI-Presence,
DL-Code-InformationAddList-768-PSCH-ReconfRqst    DL-Code-InformationAddList-768-PSCH-ReconfRqst,
iE-Extensions        ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs} }
OPTIONAL,
...

DL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-Code-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {SIZE (1..maxNrOfPDSCHs)} OF DL-Code-InformationAddItem-768-PSCH-ReconfRqst

DL-Code-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
pDSCH-ID768        PDSCH-ID768,
tdd-ChannelisationCode768    TDD-ChannelisationCode768,
iE-Extensions        ProtocolExtensionContainer { { DL-Code-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs} }
OPTIONAL,
...
}

DL-Code-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE {SIZE (1..maxNrOfPDSCHSets)} OF PDSCHSets-ModifyItem-PSCH-ReconfRqst

PDSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
pDSCHSet-ID         PDSCHSet-ID,
pDSCH-InformationList      PDSCH-Information-ModifyList-PSCH-ReconfRqst,
iE-Extensions        ProtocolExtensionContainer { {PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
OPTIONAL,
...
}

PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

{ID id-PDSCH-ModifyInformation-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION PDSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst
PRESENCE optional}, -- For 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
...
}

PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container { { PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IEBS ::= {

{ID id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-ModifyItem-PSCH-ReconfRqst
PRESENCE optional}

{ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst
PRESENCE optional}
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
repetitionPeriod         RepetitionPeriod        OPTIONAL,
repetitionLength         RepetitionLength        OPTIONAL,
PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...}

DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot          TimeSlot,  
  midambleShiftAndBurstType      MidambleShiftAndBurstType       OPTIONAL,  
  tFCI-Presence         TFCI-Presence          OPTIONAL,  
  DL-Code-InformationModifyList-PSCH-ReconfRqst    DL-Code-InformationModifyList-PSCH-ReconfRqst  OPTIONAL,  
  iE-Extensions       ProtocolExtensionContainer { { DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } 
  OPTIONAL,
  ...
}

DL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID        PDSCH-ID,  
  tdd-ChannelisationCode     TDD-ChannelisationCode,  
  iE-Extensions       ProtocolExtensionContainer { { DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} } 
  OPTIONAL,
  ...
}

DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod           RepetitionPeriod       OPTIONAL,  
  repetitionLength           RepetitionLength       OPTIONAL,  
  tdd-PhysicalChannelOffset      TDD-PhysicalChannelOffset OPTIONAL,  
  DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst  DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst  OPTIONAL,  
  iE-Extensions       ProtocolExtensionContainer { {PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs} } 
  OPTIONAL,
  ...
}

PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlotLCR TimeSlotLCR,
  midambleShiftLCR MidambleShiftLCR OPTIONAL,
  tFCI-Presence TFCI-Presence OPTIONAL,
  DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
} OPTIONAL,
...

DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID PDSCH-ID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  iE-Extensions ProtocolExtensionContainer {{ DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
} OPTIONAL,
...

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR CRITICALITY reject EXTENSION TDD-DL-DPCH-TimeSlotFormat-LCR PRESENCE optional},
}...

PDSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  dl-Timeslot-768-InformationModifyList-PSCH-ReconfRqst dl-Timeslot-768-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ PDSCH-ModifyInformation-768-ModifyListIE-PSCH-ReconfRqst-ExtIEs} }
} OPTIONAL,
...

PDSCH-ModifyInformation-768-ModifyListIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-Timeslot-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst

DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot TimeSlot,
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  dl-Timeslot-768-InformationModifyList-PSCH-ReconfRqst dl-Timeslot-768-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
}
midambleShiftAndBurstType768 OPTIONAL,
tDDCI-Presence OPTIONAL,
dL-Code-768-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
,...

DL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...}

DL-Code-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-768-InformationModifyItem-PSCH-ReconfRqst

DL-Code-768-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
pDSCH-ID768 PDSCH-ID768,
tdd-ChannelisationCode768 TDD-ChannelisationCode768,
iE-Extensions ProtocolExtensionContainer { { DL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
...}

PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSChSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst

PDSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
pDSCHSet-ID PDSCHSet-ID,
iE-Extensions ProtocolExtensionContainer { {PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...}

PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...}

PUSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSChSets)) OF PUSCHSets-AddItem-PSCH-ReconfRqst

PUSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
pUSCHSet-ID PUSCHSet-ID,
PUSCH-InformationList PUSCH-InformationAddList-PSCH-ReconfRqst OPTIONAL,
-- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD
iE-Extensions ProtocolExtensionContainer { {PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...}

PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst PRESENCE optional } | -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD
...}
PUSCH-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tdd-PhysicalChannelOffset      TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-PSCH-ReconfRqst UL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions         ProtocolExtensionContainer { {PUSCH-AddItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
}

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot         TimeSlot,
    midambleShiftAndBurstType     MidambleShiftAndBurstType,
    tFCI-Presence        TFCI-Presence,
    uL-Code-InformationAddItem-PSCH-ReconfRqst UL-Code-InformationAddItem-PSCH-ReconfRqst,
    iE-Extensions        ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
}

UL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    PUSCH-ID        PUSCH-ID,
    tdd-ChannelisationCode     TDD-ChannelisationCode,
    iE-Extensions       ProtocolExtensionContainer { { UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,  

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod            RepetitionPeriod,
  repetitionLength            RepetitionLength,
  tdd-PhysicalChannelOffset   TDD-PhysicalChannelOffset,
  ul-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
  iE-Extensions                ProtocolExtensionContainer { {PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst

UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlotLCR                 TimeSlotLCR,
  midambleShiftLCR            MidambleShiftLCR,
  tFCI-Presence               TFCI-Presence,
  ul-Code-InformationAddList-LCR-PSCH-ReconfRqst UL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
  iE-Extensions                ProtocolExtensionContainer { {UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

UL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  pUSCH-ID                    PUSCH-ID,
  tdd-ChannelisationCodeLCR   TDD-ChannelisationCodeLCR,
  iE-Extensions                ProtocolExtensionContainer { {UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-PUSCH-Timeslot-Format-PSCH-ReconfRqst-LCR CRITICALITY reject EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR PRESENCE optional},
  ...
}

PUSCH-AddInformation-768-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod            RepetitionPeriod,
  repetitionLength            RepetitionLength,
  tdd-PhysicalChannelOffset   TDD-PhysicalChannelOffset,
  ul-Timeslot-InformationAddList-768-PSCH-ReconfRqst UL-Timeslot-InformationAddList-768-PSCH-ReconfRqst,
  iE-Extensions                ProtocolExtensionContainer { {PUSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

ETSI
PUSCH-AddInformation-768-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

...}

UL-Timeslot-InformationAddList-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst

UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot          TimeSlot,
  midambleShiftAndBurstType768 MidambleShiftAndBurstType768,
  tFCI-Presence         TFCI-Presence,
  iE-Extensions       ProtocolExtensionContainer ({ UL-Timeslot-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs }) OPTIONAL,
...}

UL-Code-InformationAddList-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-768-PSCH-ReconfRqst

UL-Code-InformationAddItem-768-PSCH-ReconfRqst ::= SEQUENCE {
  pUSCH-ID        PUSCH-ID,
  tdd-ChannelisationCode768 TDD-ChannelisationCode768,
  iE-Extensions       ProtocolExtensionContainer ({ UL-Code-InformationAddItem-768-PSCH-ReconfRqst-ExtIEs }) OPTIONAL,
...}

PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst

PUSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pUSCH-Set-ID         PUSCHSet-ID,
  pUSCH-InformationList PUSCH-Information-ModifyList-PSCH-ReconfRqst,
  iE-Extensions       ProtocolExtensionContainer ({ PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs }) OPTIONAL,
...}

PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst nbap-protocol-IEs ::= {
  {id id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-ModifyItem-PSCH-ReconfRqst PRESENCE optional}|
  {id id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst PRESENCE optional}
}
PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  ul-Timeslot-InformationModifyList-PSCH-ReconfRqst UL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
  ...
}
PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs nbap-protocol-extension ::= {
  ...
}
UL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst
UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
  tPCI-Presence TPCI-Presence OPTIONAL,
  ul-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
  ...
}
UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs nbap-protocol-extension ::= {
  ...
}
UL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst
UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pUSCH-ID PUSCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  iE-Extensions ProtocolExtensionContainer {{UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
  ...
}
UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs nbap-protocol-extension ::= {
  ...
}
PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod RepetitionPeriod OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlotLCR                        TimeSlotLCR,
  midambleShiftLCR                   MidambleShiftLCR OPTIONAL,
  tFCI-Presence                      TFCI-Presence OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
  ...
}

UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pUSCH-ID                           PUSCH-ID,
  tdd-ChannelisationCodeLCR          TDD-ChannelisationCodeLCR,
  iE-Extensions ProtocolExtensionContainer { {UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
  ...
}

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PUSCH-Timeslot-Format-PSCH-ReconfRqst-LCR CRITICALITY reject EXTENSION TDD-UL-DPCH-TimeSlotFormat-LCR PRESENCE optional},
  ...
}

PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod                   RepetitionPeriod OPTIONAL,
  repetitionLength                   RepetitionLength OPTIONAL,
  tdd-PhysicalChannelOffset          TDD-PhysicalChannelOffset OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
  ...
}
PUSCH-ModifyInformation-768-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ... }  
UL-Timeslot-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlot               TimeSlot,
  midambleShiftAndBurstType768    MidambleShiftAndBurstType768
  OPTIONAL,
  tFCI-Presence          TFCI-Presence
  OPTIONAL,
  uL-Code-768-InformationModifyList-PSCH-ReconfRqst   UL-Code-768-InformationModifyList-PSCH-ReconfRqst
  OPTIONAL,
  iE-Extensions       ProtocolExtensionContainer { UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs }
  OPTIONAL,
  ...}

UL-Timeslot-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ... }  
UL-Code-768-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-768-InformationModifyItem-PSCH-ReconfRqst

UL-Code-768-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pUSCH-ID        PUSCH-ID,
  tdd-ChannelisationCode768    TDD-ChannelisationCode768,
  iE-Extensions       ProtocolExtensionContainer { UL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs }
  OPTIONAL,
  ...}

UL-Code-768-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ... }  
PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRqst

PUSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
  pUSCHSet-ID         PUSCHSet-ID,
  iE-Extensions        ProtocolExtensionContainer { PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs }
  OPTIONAL,
  ...}

PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ... }  
HS-PDSCH-TDD-Information-PSCH-ReconfRqst ::= SEQUENCE {
  dL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst   DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst
  OPTIONAL,
  dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst   DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
  OPTIONAL,
-- This HS-PDSCH Timeslot Information is for the first Frequency repetition, HS-PDSCH Timeslot information for Frequency repetitions 2 and on, should be defined in MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst

iE-Extensions ProtocolExtensionContainer { { HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,

...

HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-dL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION DL-HS-PDSCH-
Timeslot-Information-768-PSCH-ReconfRqst PRESENCE optional } | For 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
{ ID id-UARFCNforMt CRITICALITY ignore EXTENSION UARFCN PRESENCE optional } | This is the UARFCN for the first Frequency repetition. Mandatory for 1.28Mcps TDD when using multiple frequencies.
{ ID id-multipleFreq-dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION MultipleFreq-DL-
HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst PRESENCE optional } | Applicable to 1.28Mcps TDD when using multiple frequencies, This Information is for the 2nd and beyond Frequency repetition...
...

DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst ::= SEQUENCE {timeSlot TimeSlot, midambleShiftAndBurstType MidambleShiftAndBurstType, dl-HS-PDSCH-Codelist-PSCH-ReconfRqst DL-HS-PDSCH-Codelist-PSCH-ReconfRqst, maxHSDSCH-HSSCCH-Power MaximumTransmissionPower OPTIONAL, iE-Extensions ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,

...

DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

DL-HS-PDSCH-Codelist-PSCH-ReconfRqst ::= SEQUENCE {SIZE (1..maxNrOfHSPDSCHs)} OF TDD-ChannelisationCode

DL-HS-PDSCH-Timeslot-Information-768-PSCH-ReconfRqst ::= SEQUENCE {timeSlot TimeSlot, midambleShiftAndBurstType768 MidambleShiftAndBurstType768, dl-HS-PDSCH-Codelist-768-PSCH-ReconfRqst DL-HS-PDSCH-Codelist-768-PSCH-ReconfRqst, maxHSDSCH-HSSCCH-Power MaximumTransmissionPower OPTIONAL, iE-Extensions ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-768-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,

...

DL-HS-PDSCH-Timeslot-InformationItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

ETSI
DL-HS-PDSCH-Codelist-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs768)) OF TDD-ChannelisationCode768

MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container{
  MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRqst
  -- Includes the 2nd through the max number of frequency repetitions.
}

MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
  ID id-MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRqst CRITICALITY reject TYPE MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRqst PRESENCE optional }

MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRqst ::= SEQUENCE {
  dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst OPTIONAL,
  uARFCN UARFCN,
  iE-Extensions ProtocolExtensionContainer { { MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
  ...
}

MultipleFreq-DL-HS-PDSCH-Timeslot-Information-LCRItemIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst::= SEQUENCE {
  hS-SCCH-Information-PSCH-ReconfRqst HS-SCCH-Information-PSCH-ReconfRqst OPTIONAL,
  hS-SCCH-Information-LCR-PSCH-ReconfRqst HS-SCCH-Information-LCR-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
  ...
}

Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-HS-SCCH-Information-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION HS-SCCH-Information-768-PSCH-ReconfRqst PRESENCE optional } -- 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
  { ID id-HS-SCCH-InformationExt-LCR-PSCH-ReconfRqst CRITICALITY ignore EXTENSION HS-SCCH-InformationExt-LCR-PSCH-ReconfRqst PRESENCE optional },
  -- Applicable to 1.28Mcps TDD only, used when there are more than maxNrOfHSSCCCHs HS-SCCHs in the message.
  ...
}

HS-SCCH-Information-PSCH-ReconfRqst::= SEQUENCE (SIZE (1..maxNrOfHSSCCCHs)) OF HS-SCCH-InformationItem-PSCH-ReconfRqst

HS-SCCH-InformationItem-PSCH-ReconfRqst ::= SEQUENCE {
  hS-SCCH-ID HS-SCCH-ID,
  timeSlot TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  hS-SCCH-MaxPower DL-Power,
  hS-SICH-Information HS-SICH-Information-PSCH-ReconfRqst,
  iE-Extensions ProtocolExtensionContainer { { HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= { ...
}

HS-SICH-Information-PSCH-ReconfRqst ::= SEQUENCE {
  hsSICH-ID  HS-SICH-ID,
  timeSlot  TimeSlot,
  midambleShiftAndBurstType  MidambleShiftAndBurstType,
  tdd-ChannelisationCode  TDD-ChannelisationCode,
  iE-Extensions  ProtocolExtensionContainer { { HS-SICH-Information-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
  ...
}

HS-SICH-Information-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= { ...
}

HS-SCCH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCCHs)) OF HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst

HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  hs-SCCH-ID  HS-SCCH-ID,
  timeSlotLCR  TimeSlotLCR,
  midambleShiftLCR  MidambleShiftLCR,
  first-TDD-ChannelisationCode  TDD-ChannelisationCode,
  second-TDD-ChannelisationCode  TDD-ChannelisationCode,
  hs-SCCH-MaxPower  DL-Power,
  hs-SICH-Information-LCR  HS-SICH-Information-LCR-PSCH-ReconfRqst,
  iE-Extensions  ProtocolExtensionContainer { { HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
  ...
}

HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Extended-HS-SCCH-ID  CRITICALITY ignore  EXTENSION Extended-HS-SCCH-ID  PRESENCE optional}|
  -- used if the HS-SCCH identity has a value larger than 31
  { ID id-UARFCNforNt  CRITICALITY ignore  EXTENSION UARFCN  PRESENCE optional}|
  -- Mandatory for 1.28Mcps TDD when using multiple frequencies
  { ID id-HSSICH-ReferenceSignal-InformationLCR  CRITICALITY ignore  EXTENSION HSSICH-ReferenceSignal-InformationLCR  PRESENCE optional},
  ...
}

HS-SICH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  hsSICH-ID  HS-SICH-ID,
  timeSlotLCR  TimeSlotLCR,
  midambleShiftLCR  MidambleShiftLCR,
  tdd-ChannelisationCode  TDD-ChannelisationCode,
  iE-Extensions  ProtocolExtensionContainer { { HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
  ...
}

HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= { ...}
{ ID id-Extended-HS-SICH-ID CRITICALITY ignore EXTENSION Extended-HS-SICH-ID PRESENCE optional };
-- used if the HS-SICH identity has a value larger than 31
...

HS-SCCH-Information-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-768-PSCH-ReconfRqst

HS-SCCH-InformationItem-768-PSCH-ReconfRqst ::= SEQUENCE {
  hs-SCCH-ID             HS-SCCH-ID,
  timeSlot               TimeSlot,
  midambleShiftAndBurstType768 MidambleShiftAndBurstType768,
  tdd-ChannelisationCode768 TDD-ChannelisationCode768,
  hS-SCCH-MaxPower       DL-Power,
  hS-SICH-Information-768 HS-SICH-Information-768-PSCH-ReconfRqst,
  iE-Extensions          ProtocolExtensionContainer { { HS-SCCH-InformationItem-768-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
}...

HS-SCCH-Information-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-SCCH-Information-768-PSCH-ReconfRqst ::= SEQUENCE {
  hS-SICH-ID             HS-SICH-ID,
  timeSlot               TimeSlot,
  midambleShiftAndBurstType768 MidambleShiftAndBurstType768,
  tdd-ChannelisationCode768 TDD-ChannelisationCode768,
  iE-Extensions          ProtocolExtensionContainer { { HS-SCCH-Information-768-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
}...

HS-SCCH-Information-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-SICH-Information-768-PSCH-ReconfRqst ::= SEQUENCE {
  hS-SICH-ID             HS-SICH-ID,
  timeSlot               TimeSlot,
  midambleShiftAndBurstType768 MidambleShiftAndBurstType768,
  tdd-ChannelisationCode768 TDD-ChannelisationCode768,
  iE-Extensions          ProtocolExtensionContainer { { HS-SCCH-Information-768-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
}...

Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE {
  hS-SCCH-InformationModify-PSCH-ReconfRqst             HS-SCCH-InformationModify-PSCH-ReconfRqst OPTIONAL,
  hS-SCCH-InformationModify-LCR-PSCH-ReconfRqst         HS-SCCH-InformationModify-LCR-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions                                      ProtocolExtensionContainer { { Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
}...

Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-hS-SCCH-InformationModify-768-PSCH-ReconfRqst CRITICALITY reject EXTENSION HS-SCCH-InformationModify-768-PSCH-ReconfRqst PRESENCE optional };
  -- 7.68 Mcps TDD. Not Applicable to 3.84Mcps TDD or 1.28 Mcps TDD.
  { ID id-hS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRqst CRITICALITY ignore EXTENSION HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRqst PRESENCE optional };
  -- Applicable to 1.28Mcps TDD only, used when there are more than maxNrOfHSSCCHs HS-SCCHs in the message.
...
HS-SCCH-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    hS-SCCH-ID          HS-SCCH-ID,  OPTIONAL,
    timeSlot            TimeSlot    OPTIONAL,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
    hS-SCCH-MaxPower    DL-Power    OPTIONAL,
    hS-SICH-Information  HS-SICH-InformationModify-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer {{ HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs }} OPTIONAL,
    ...
}

HS-SICH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

HS-SICH-InformationModify-PSCH-ReconfRqst ::= SEQUENCE {
    hsSICH-ID          HS-SICH-ID,  OPTIONAL,
    timeSlot            TimeSlot    OPTIONAL,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer {{ HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs }} OPTIONAL,
    ...
}

HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

HS-SCCH-InformationModify-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst

HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    hS-SCCH-ID          HS-SCCH-ID,  OPTIONAL,
    timeSlotLCR        TimeSlotLCR  OPTIONAL,
    midambleShiftLCR    MidambleShiftLCR OPTIONAL,
    first-TDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
    second-TDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
    hS-SCCH-MaxPower    DL-Power    OPTIONAL,
    hs-SICH-Information-LCR  HS-SICH-InformationModify-LCR-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer {{ HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs }} OPTIONAL,
    ...
}

HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SCCH-ID CRITICALITY ignore EXTENSION Extended-HS-SCCH-ID PRESENCE optional }
whel the HS-SCCH identity has a value larger than 31
    { ID id-UARFCNforHt CRITICALITY ignore EXTENSION UARFCN PRESENCE optional }
whel applicable to 1.28Mcps TDD when using multiple frequencies
    { ID id-HSSICH-ReferenceSignal-InformationModifyLCR CRITICALITY reject EXTENSION HSSICH-ReferenceSignal-InformationModifyLCR PRESENCE optional }
    ...

ETSI
HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHsinExt)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst

HS-SICH-InformationModify-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    hsSICH-ID               HS-SICH-ID,
    timeSlotLCR            TimeSlotLCR OPTIONAL,
    midambleShiftLCR       MidambleShiftLCR OPTIONAL,
    tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer {{ HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs }},
    OPTIONAL,
    ...
}

HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-HS-SICH-ID CRITICALITY ignore EXTENSION Extended-HS-SICH-ID PRESENCE optional },
    -- used if the HS-SICH identity has a value larger than 31
    ...
}

HS-SCCH-InformationModifyItem-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-768-PSCH-ReconfRqst

HS-SCCH-InformationModifyItem-768-PSCH-ReconfRqst  ::= SEQUENCE {
    hs-SCCH-ID              HS-SCCH-ID,
    timeSlot               TimeSlot          OPTIONAL,
    midambleShiftAndBurstType768 MidambleShiftAndBurstType768,
    tdd-ChannelisationCode768 TDD-ChannelisationCode768,
    hS-SCCH-MaxPower       DL-Power OPTIONAL,
    hs-SICH-Information-768 HS-SICH-InformationModify-768-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer {{ HS-SCCH-InformationModifyItem-768-PSCH-ReconfRqst-ExtIEs }},
    OPTIONAL,
    ...
}

HS-SCCH-InformationModifyItem-768-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-InformationModify-768-PSCH-ReconfRqst ::= SEQUENCE {
    hsSICH-ID              HS-SICH-ID,
    timeSlot               TimeSlot          OPTIONAL,
    midambleShiftAndBurstType768 MidambleShiftAndBurstType768,
    tdd-ChannelisationCode768 TDD-ChannelisationCode768,
    iE-Extensions           ProtocolExtensionContainer {{ HS-SICH-InformationModifyItem-768-PSCH-ReconfRqst-ExtIEs }},
    OPTIONAL,
    ...
}

HS-SICH-InformationModify-768-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SCCH-InformationModify-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-PSCH-ReconfRqst


Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst

Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst ::= SEQUENCE {
  hS-SCCH-ID HS-SCCH-ID,
  iE-Extensions ProtocolExtensionContainer { { Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ID id-Extended-HS-SCCH-ID CRITICALITY ignore EXTENSION Extended-HS-SCCH-ID PRESENCE optional },
  -- used if the HS-SCCH identity has a value larger than 31
  ...
}

E-PUCH-Information-PSCH-ReconfRqst ::= SEQUENCE {
  lTGI-Presence LTGI-Presence,
  sNPL-Reporting-Type SNPL-Reporting-Type,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  e-PUCH-Timeslot-Info E-PUCH-Timeslot-Info,
  iE-Extensions ProtocolExtensionContainer { { E-PUCH-Information-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

E-PUCH-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-PUCH-Timeslot-Info ::= SEQUENCE (SIZE (1..maxNrOfE-PUCHSlots)) OF Timeslot

Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE {
  e-AGCH-Information-PSCH-ReconfRqst E-AGCH-Information-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-AGCH-Information-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-PSCH-ReconfRqst

E-AGCH-InformationItem-PSCH-ReconfRqst ::= SEQUENCE {
  e-AGCH-ID E-AGCH-Id,
  timeSlot TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  e-AGCH-MaxPower DL-Power,
  iE-Extensions ProtocolExtensionContainer { { E-AGCH-InformationItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

E-AGCH-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE {
  e-AGCH-InformationModify-PSCH-ReconfRqst E-AGCH-InformationModify-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
...
}

Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

E-AGCH-InformationModify-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-PSCH-ReconfRqst

E-AGCH-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  e-AGCH-ID E-AGCH-Id,
  timeSlot TimeSlot OPTIONAL,
  midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
  tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
  e-AGCH-MaxPower DL-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { E-AGCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
...
}

E-AGCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst

Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst ::= SEQUENCE {
  e-AGCH-ID E-AGCH-Id,
  iE-Extensions ProtocolExtensionContainer { { Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
...
}

Delete-From-E-AGCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

E-HICH-Information-PSCH-ReconfRqst ::= SEQUENCE {
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  e-HICH-MaxPower DL-Power,
  iE-Extensions ProtocolExtensionContainer { { E-HICH-Information-PSCH-ReconfRqst-ExtIEs} }
  OPTIONAL,
...
}

E-HICH-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
E-PUCH-Information-768-PSCH-ReconfRqst ::= SEQUENCE {
  lTGI-Presence               LTGI-Presence,
  sNPL-Reporting-Type         SNPL-Reporting-Type,
  midambleShiftAndBurstType768 MidambleShiftAndBurstType768,
  e-PUCH-Timeslot-Info       E-PUCH-Timeslot-Info,
  iE-Extensions               ProtocolExtensionContainer {{ E-PUCH-Information-768-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

E-PUCH-Information-768-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst ::= SEQUENCE {
  e-AGCH-Information-768-PSCH-ReconfRqst  E-AGCH-Information-768-PSCH-ReconfRqst  OPTIONAL,
  iE-Extensions               ProtocolExtensionContainer {{ Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-AGCH-Information-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-768-PSCH-ReconfRqst

E-AGCH-InformationItem-768-PSCH-ReconfRqst ::= SEQUENCE {
  e-AGCH-ID                  E-AGCH-Id,
  timeSlot                  TimeSlot,
  midambleShiftAndBurstType768 MidambleShiftAndBurstType768,
  tdd-ChannelisationCode768  TDD-ChannelisationCode768,
  e-AGCH-MaxPower            DL-Power,
  iE-Extensions              ProtocolExtensionContainer {{ E-AGCH-InformationItem-768-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

E-AGCH-InformationItem-768-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst ::= SEQUENCE {
  e-AGCH-InformationModify-768-PSCH-ReconfRqst  E-AGCH-InformationModify-768-PSCH-ReconfRqst  OPTIONAL,
  iE-Extensions               ProtocolExtensionContainer {{ Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-AGCH-InformationModify-768-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-768-PSCH-ReconfRqst
E-AGCH-InformationModifyItem-768-PSCH-ReconfRqst ::= SEQUENCE {
    e-AGCH-ID E-AGCH-Id,  
timeSlot TimeSlot,  
midambleShiftAndBurstType768 MidambleShiftAndBurstType768,  
tdd-ChannelisationCode768 TDD-ChannelisationCode768,  
e-AGCH-MaxPower DL-Power,  
iE-Extensions ProtocolExtensionContainer { { E-AGCH-InformationModifyItem-768-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,  
...
}

E-AGCH-InformationModifyItem-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

E-HICH-Information-768-PSCH-ReconfRqst ::= SEQUENCE {
    midambleShiftAndBurstType768 MidambleShiftAndBurstType768,  
tdd-ChannelisationCode768 TDD-ChannelisationCode768,  
e-HICH-MaxPower DL-Power,  
iE-Extensions ProtocolExtensionContainer { { E-HICH-Information-768-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,  
...
}

E-HICH-Information-768-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

E-PUCH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    LTGI-Presence LTGI-Presence,  
sNPL-Reporting-Type SNPL-Reporting-Type,  
e-PUCH-Timeslot-InfoLCR E-PUCH-Timeslot-InfoLCR OPTIONAL,  
    -- This E-PUCH Timeslot Information is for the first Frequency repetition, E-PUCH timeslot information for Frequency repetitions 2 and on, should be defined in MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst.
    iE-Extensions ProtocolExtensionContainer { { E-PUCH-Information-LCR-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,  
    ...
}

E-PUCH-Information-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

E-PUCH-Information-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

E-PUCH-Timeslot-InfoLCR ::= SEQUENCE (SIZE (1..maxNrOfE-PUCHSlotsLCR)) OF E-PUCH-Timeslot-Item-InfoLCR

E-PUCH-Timeslot-Item-InfoLCR ::= SEQUENCE {
    timeSlot TimeSlotLCR,  
midambleShiftAndBurstType LCP-ChannelisationCodeLCR,  
e-PUCH-Codelist-LCR E-PUCH-Codelist-PCRC,  
iE-Extensions ProtocolExtensionContainer { { E-PUCH-Timeslot-Item-InfoLCR-ExtIEs} }  OPTIONAL,  
...
E-PUCH-Timeslot-Item-InfoLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

E-PUCH-Codelist-LCR ::= SEQUENCE (SIZE (1..maxNrOfEPUCHcodes)) OF TDD-ChannelisationCode

Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-AGCH-Information-LCR-PSCH-ReconfRqst E-AGCH-Information-LCR-PSCH-ReconfRqst,
    iE-Extensions ProtocolExtensionContainer { { Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

E-AGCH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-LCR-PSCH-ReconfRqst

E-AGCH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-AGCH-ID E-AGCH-Id,
    timeSlotLCR TimeSlotLCR,
    midambleShiftLCR MidambleShiftLCR,
    first-TDD-ChannelisationCode TDD-ChannelisationCode,
    second-TDD-ChannelisationCode TDD-ChannelisationCode,
    e-AGCH-MaxPower DL-Power,
    iE-Extensions ProtocolExtensionContainer { { E-AGCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

B-AGCH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationItem-LCR-PSCH-ReconfRqst

Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-AGCH-InformationModify-LCR-PSCH-ReconfRqst E-AGCH-InformationModify-LCR-PSCH-ReconfRqst,
    iE-Extensions ProtocolExtensionContainer { { Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UARFCNforNt CRITICALITY ignore EXTENSION UARFCN PRESENCE optional},
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    ...
}

B-AGCH-InformationModify-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEAGCHs)) OF E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst

B-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-AGCH-ID E-AGCH-Id,
    timeSlotLCR TimeSlotLCR OPTIONAL,
    ...
}

B-AGCH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
midambleShiftLCR       MidambleShiftLCR OPTIONAL,
first-TDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
second-TDD-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
e-AGCH-MaxPower        DL-Power OPTIONAL,
iE-Extensions          ProtocolExtensionContainer { { E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }
OPTIONAL,
...

E-AGCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-UARFCNforNt  CRITICALITY ignore EXTENSION UARFCN PRESENCE optional},
-- Mandatory for 1.28Mcps TDD when using multiple frequencies
...
}

Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
e-HICH-Information-LCR-PSCH-ReconfRqst E-HICH-Information-LCR-PSCH-ReconfRqst,
iE-Extensions ProtocolExtensionContainer { { Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

E-HICH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfEHICHs)) OF E-HICH-InformationItem-LCR-PSCH-ReconfRqst

E-HICH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
e-HICH-ID-TDD E-HICH-ID-TDD,
e-HICH-Type E-HICH-Type,
tdd-ChannelisationCode TDD-ChannelisationCode,
timeSlotLCR TimeSlotLCR,
midambleShiftLCR MidambleShiftLCR,
e-HICH-MaxPower DL-Power,
iE-Extensions ProtocolExtensionContainer { { E-HICH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

B-HICH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-Extended-E-HICH-ID-TDD  CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional}],
-- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
{ ID id-UARFCNforNt  CRITICALITY ignore EXTENSION UARFCN PRESENCE optional},
-- Mandatory for 1.28Mcps TDD when using multiple frequencies
...
}

Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
e-HICH-InformationModify-LCR-PSCH-ReconfRqst  E-HICH-InformationModify-LCR-PSCH-ReconfRqst,
iE-Extensions ProtocolExtensionContainer { { Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}
Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

B-HICH-InformationModify-ExtIEs ::= SEQUENCE (SIZE (1..maxNrOfEHICHs)) OF B-HICH-InformationModifyItem-LCR-PSCH-ReconfRqst

B-HICH-InformationModifyItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    e-HICH-ID-TDD  E-HICH-ID-TDD,
    e-HICH-Type    E-HICH-Type    OPTIONAL,
    midambleShiftLCR  MidambleShiftLCR  OPTIONAL,
    tdd-ChannelisationCode  TDD-ChannelisationCode  OPTIONAL,
    timeSlotLCR    TimeSlotLCR     OPTIONAL,
    iE-Extensions   ProtocolExtensionContainer { { B-HICH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}

Delete-From-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-E-HICH-ID-TDD   CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional}|
    --Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
    { ID id-UARFCNforNt       CRITICALITY ignore  EXTENSION UARFCN   PRESENCE optional},
    -- Mandatory for 1.28Mcps TDD when using multiple frequencies
    ...
}

Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfEHICHs)) OF Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRqst

Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRqst ::= SEQUENCE {
    e-HICH-ID-TDD         E-HICH-ID-TDD,
    iE-Extensions         ProtocolExtensionContainer { { Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}

Delete-From-E-HICH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-E-HICH-ID-TDD   CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional},
    -- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
    ...
}

SYNC-UL-Partition-LCR ::= SEQUENCE {
    eRUCCH-SYNC-UL-codes-bitmap     BIT STRING (SIZE (8)),
    iE-Extensions        ProtocolExtensionContainer { { SYNC-UL-Partition-LCR-ExtIEs} }
    OPTIONAL,
    ...
}

SYNC-UL-Partition-LCR-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfHSSCCHsinExt)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst
MultipleFreq-E-PUCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container

   {{ MultipleFreq-E-PUCH-Timeslot-InformationItemIE-LCR-PSCH-ReconfRqst}}  --Includes the 2nd through the max number of frequencies information repetitions.

MultipleFreq-E-PUCH-Timeslot-InformationItemIE-LCR-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
   { ID id-MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst CRITICALITY ignore TYPE MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst PRESENCE optional }
}

MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst ::= SEQUENCE {
   e-PUCH-Timeslot-InfoLCR E-PUCH-Timeslot-InfoLCR OPTIONAL,
   uARFCN UARFCN,
   iE-Extensions ProtocolExtensionContainer { { MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
   ...
}

MultipleFreq-E-PUCH-Timeslot-Information-LCRItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   ...
}

Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst-Item

Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst-Item ::= SEQUENCE {
   uARFCN UARFCN,
   maximum-Target-ReceivedTotalWideBandPower-LCR Maximum-Target-ReceivedTotalWideBandPower-LCR,
   iE-Extensions ProtocolExtensionContainer { { Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst-Item-ExtIEs} } OPTIONAL,
   ...
}

Max-RTWP-perUARFCN-Information-LCR-PSCH-ReconfRqst-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   ...
}

-- **************************************************************
-- PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE
-- **************************************************************

PhysicalSharedChannelReconfigurationResponse ::= SEQUENCE {
   protocolIEs ProtocolIE-Container {{PhysicalSharedChannelReconfigurationResponse-IEs}},
   protocolExtensions ProtocolExtensionContainer {{PhysicalSharedChannelReconfigurationResponse-Extensions}} OPTIONAL,
   ...
}

PhysicalSharedChannelReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= {
   { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }
   ...
}
PhysicalSharedChannelReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-HICH-TimeOffset CRITICALITY reject EXTENSION E-HICH-TimeOffset }
  { ID id-E-HICH-TimeOffsetLCR CRITICALITY reject EXTENSION E-HICH-TimeOffsetLCR }
  { ID id-HSDSCH-Common-System-Information-ResponseFDD CRITICALITY ignore EXTENSION HSDSCH-Common-System-Information-ResponseFDD }
  { ID id-HSDSCH-Paging-System-Information-ResponseFDD CRITICALITY ignore EXTENSION HSDSCH-Paging-System-Information-ResponseFDD }
  { ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN }
  { ID id-E-HICH-TimeOffset-Extension CRITICALITY reject EXTENSION E-HICH-TimeOffset-ExtensionLCR }
  { ID id-Common-EDCH-System-Information-ResponseFDD CRITICALITY ignore EXTENSION Common-EDCH-System-Information-ResponseFDD }
  { ID id-HSCHSCH-Common-System-Information-ResponseLCR CRITICALITY ignore EXTENSION HSDSCH-Paging-System-Information-ResponseLCR }
  { ID id-HSCHSCH-Paging-System-Information-ResponseLCR CRITICALITY ignore EXTENSION HSDSCH-Paging-System-Information-ResponseLCR }
  { ID id-Common-EDCH-System-Information-ResponseLCR CRITICALITY ignore EXTENSION Common-EDCH-System-Information-ResponseLCR }
  ...
}

E-HICH-TimeOffset-ExtensionLCR ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF ProtocolIE-Single-Container{" Multiple-E-HICH-TimeOffsetLCR }

Multiple-E-HICH-TimeOffsetLCR NBAP-PROTOCOL-IES ::= {
  { ID id-MultipleFreq-E-HICH-TimeOffsetLCR CRITICALITY reject TYPE MultipleFreq-E-HICH-TimeOffsetLCR PRESENCE optional }
}

MultipleFreq-E-HICH-TimeOffsetLCR ::= SEQUENCE {
  e-HICH-TimeOffsetLCR E-HICH-TimeOffsetLCR,
  uARFCN UARFCN,
  iE-Extensions ProtocolExtensionContainer { { MultipleFreq-E-HICH-TimeOffsetLCR-ExtIEs } } OPTIONAL,
  ...
}

MultipleFreq-E-HICH-TimeOffsetLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- ********************************************************************
-- PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE
-- ********************************************************************

PhysicalSharedChannelReconfigurationFailure ::= SEQUENCE {
  protocolIEs ProtocolIE-Container { {PhysicalSharedChannelReconfigurationFailure-IEs} },
  protocolExtensions ProtocolExtensionContainer { {PhysicalSharedChannelReconfigurationFailure-Extensions} } OPTIONAL,
  ...
}
PhysicalSharedChannelReconfigurationFailure-IEs NBAP-PROTOCOL-IEs ::= {
  { ID id-CauseLevel-PSCH-ReconfFailure CRITICALITY ignore TYPE CauseLevel-PSCH-ReconfFailure PRESENCE mandatory }|
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

PhysicalSharedChannelReconfigurationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-HICH-TimeOffset-ReconfFailureTDD CRITICALITY ignore EXTENSION E-HICH-TimeOffset-ReconfFailureTDD PRESENCE optional }|
  { ID id-Common-System-Information-ResponseLCR CRITICALITY ignore EXTENSION Common-System-Information-ResponseLCR PRESENCE optional },
  ...
}

CauseLevel-PSCH-ReconfFailure ::= CHOICE {
  generalCause GeneralCauseList-PSCH-ReconfFailure,
  setSpecificCause SetSpecificCauseList-PSCH-ReconfFailureTDD,
  ...
  extension-CauseLevel-PSCH-ReconfFailure Extension-CauseLevel-PSCH-ReconfFailure
}

GeneralCauseList-PSCH-ReconfFailure ::= SEQUENCE {
  cause Cause,
  iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-PSCH-ReconfFailure-ExtIEs} } OPTIONAL,
  ...
}

GeneralCauseItem-PSCH-ReconfFailure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SetSpecificCauseList-PSCH-ReconfFailureTDD ::= SEQUENCE {
  unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD OPTIONAL,
  unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs} } OPTIONAL,
  ...
}

SetSpecificCauseItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Unsuccessful-PDSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE {SIZE (0.. maxNrOfPDSCHSets)} OF ProtocolIE-Single-Container {{ Unsuccessful-PDSCHSetItemIE-PSCH-ReconfFailureTDD }}

Unsuccessful-PDSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IEs ::= {
  { ID id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD PRESENCE mandatory}
}

Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
Unsuccessful-PDSCHSet-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Unsuccessful-PUSCHSetList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxNrOfPUSCHSets)) OF ProtocolIE-Single-Container {{ Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD }}

Unsuccessful-PUSCHSetItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD PRESENCE mandatory }
}

Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
  pUSCHSet-ID PUSCHSet-ID,
  cause Cause,
  iE-Extensions ProtocolExtensionContainer { {Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs} } OPTIONAL,
  ...}

Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Extension-CauseLevel-PSCH-ReconfFailure ::= ProtocolIE-Single-Container {{ Extension-CauseLevel-PSCH-ReconfFailureIE }}

Extension-CauseLevel-PSCH-ReconfFailureIE NBAP-PROTOCOL-IES ::= {
  { ID id-UARFCNSpecificCauseList CRITICALITY ignore TYPE UARFCNSpecificCauseList-PSCH-ReconfFailureTDD PRESENCE mandatory }
}

UARFCNSpecificCauseList-PSCH-ReconfFailureTDD ::= SEQUENCE (SIZE (0.. maxFrequencyinCell)) OF ProtocolIE-Single-Container {{ Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD }}

Unsuccessful-UARFCNItemIE-PSCH-ReconfFailureTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD CRITICALITY ignore TYPE Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD PRESENCE mandatory }
}

Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD ::= SEQUENCE {
  uARFCN UARFCN,
  -- Used for 1.28 Mcps TDD to indicate the carrier on which HSDPA or HSUPA resources configuration failure occurs.
  cause Cause,
  iE-Extensions ProtocolExtensionContainer { {Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD-ExtIEs} } OPTIONAL,
  ...}

Unsuccessful-UARFCNItem-PSCH-ReconfFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-HS-Cause CRITICALITY ignore EXTENSION Cause PRESENCE optional }
  -- Used to indicate the cause of HSDPA related configuration failure.
}
{ ID id-E-Cause CRITICALITY ignore EXTENSION Cause PRESENCE optional },
-- Used to indicate the cause of E-DCH related configuration failure.
...

E-HICH-TimeOffset-ReconfFailureTDD ::= SEQUENCE (SIZE (1..maxFrequencyinCell)) OF ProtocolIE-Single-Container{{ Multiple-E-HICH-TimeOffsetLCR }}

Common-System-Information-ResponseLCR ::= SEQUENCE {
  hSDSCH-Common-System-Information-ResponseLCR  HSDSCH-Common-System-Information-ResponseLCR,
  hSDSCH-Paging-System-Information-ResponseLCR  HSDSCH-Paging-System-Information-ResponseLCR OPTIONAL,
  common-EDCH-System-Information-ResponseLCR  Common-EDCH-System-Information-ResponseLCR,
  iE-Extensions ProtocolIE-ExtensionContainer { { Common-System-Information-ResponseLCR-ExtIEs } }
  OPTIONAL,
  ...
}

Common-System-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- ***************************************************************
-- -- RESET REQUEST -- -- ***************************************************************

ResetRequest ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{ResetRequest-IEs}},
  protocolExtensions ProtocolIE-ExtensionContainer {{ResetRequest-Extensions}} OPTIONAL,
  ...
}

ResetRequest-IEs NBAP-PROTOCOL-IE ::= {
  { ID id-ResetIndicator CRITICALITY ignore TYPE ResetIndicator PRESENCE mandatory },
  ...
}

ResetRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

ResetIndicator ::= CHOICE {
  communicationContext CommunicationContextList-Reset,
  communicationControlPort CommunicationControlPortList-Reset,
  nodeB NULL,
  ...}
CommunicationContextList-Reset ::= SEQUENCE {
  communicationContextInfoList-Reset CommunicationContextInfoList-Reset,
  iE-Extensions ProtocolExtensionContainer  { {CommunicationContextItem-Reset-ExtIEs} }  OPTIONAL,
  ...  
}
CommunicationContextItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}
CommunicationContextInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCommunicationContext)) OF ProtocolIE-Single-Container {
  CommunicationContextInfoItemIE-Reset 
}
CommunicationContextInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
  {ID id=CommunicationContextInfoItem-Reset CRITICALITY reject TYPE CommunicationContextInfoItem-Reset PRESENCE mandatory} 
}
CommunicationContextInfoItemIE-Reset ::= SEQUENCE {
  communicationContextType-Reset CommunicationContextType-Reset,
  iE-Extensions ProtocolExtensionContainer  { { CommunicationContextInfoItem-Reset-ExtIEs} }  OPTIONAL,
  ...  
}
CommunicationContextInfoItemIE-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}
CommunicationContextType-Reset ::= CHOICE {
  cRNC-CommunicationContextID CRNC-CommunicationContextID,
  nodeB-CommunicationContextID NodeB-CommunicationContextID,
  ... 
}
CommunicationControlPortList-Reset ::= SEQUENCE {
  communicationControlPortInfoList-Reset CommunicationControlPortInfoList-Reset,
  iE-Extensions ProtocolExtensionContainer  { {CommunicationControlPortItem-Reset-ExtIEs} }  OPTIONAL,
  ...  
}
CommunicationControlPortItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommunicationControlPortInfoList-Reset ::= SEQUENCE (SIZE (1.. maxCCPinNodeB)) OF ProtocolIE-Single-Container
    {{CommunicationControlPortInfoItemIE-Reset }}

CommunicationControlPortInfoItemIE-Reset NBAP-PROTOCOL-IES ::= {
    {ID id-CommunicationControlPortInfoItem-Reset    CRITICALITY reject    TYPE CommunicationControlPortInfoItem-Reset    PRESENCE mandatory}
}

CommunicationControlPortInfoItem-Reset ::= SEQUENCE {
    communicationControlPortID    CommunicationControlPortID,
    iE-Extensions    ProtocolExtensionContainer  {{CommunicationControlPortInfoItem-Reset-ExtIEs}} } OPTIONAL,
    ...
}

CommunicationControlPortInfoItem-Reset-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- ******************************************************
--
-- RESET RESPONSE
--
-- ******************************************************

ResetResponse ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{ResetResponse-IEs}},
    protocolExtensions    ProtocolExtensionContainer  {{ResetResponse-Extensions}} } OPTIONAL,
    ...
}

ResetResponse-IEs NBAP-PROTOCOL-IES ::= {
    {ID id-CriticalityDiagnostics    CRITICALITY ignore    TYPE CriticalityDiagnostics    PRESENCE optional},
    ...
}

ResetResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
---
--- INFORMATION EXCHANGE INITIATION REQUEST
---
--- ************************************************************

InformationExchangeInitiationRequest ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{InformationExchangeInitiationRequest-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{InformationExchangeInitiationRequest-Extensions}}  OPTIONAL,
...}

--- INFORMATION EXCHANGE INITIATION RESPONSE
---
--- ************************************************************
InformationExchangeInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-InformationExchangeID CRITICALITY ignore TYPE InformationExchangeID  PRESENCE mandatory }|
  { ID id-InformationExchangeObjectType-InfEx-Rsp CRITICALITY ignore TYPE InformationExchangeObjectType-InfEx-Rsp  PRESENCE optional }|
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics  PRESENCE optional },
}

InformationExchangeInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...}

InformationExchangeObjectType-InfEx-Rsp ::= CHOICE {
  cell Cell-InfEx-Rsp,
  ...
}

Cell-InfEx-Rsp ::= SEQUENCE {
  requestedDataValue RequestedDataValue,
  iE-Extensions ProtocolExtensionContainer { { CellItem-InfEx-Rsp-ExtIEs} } OPTIONAL,
  ...
}

CellItem-InfEx-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- **************************************************************
-- INFORMATION EXCHANGE INITIATION FAILURE
-- **************************************************************

InformationExchangeInitiationFailure ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{InformationExchangeInitiationFailure-IEs}},
  protocolExtensions ProtocolExtensionContainer {{InformationExchangeInitiationFailure-Extensions}} OPTIONAL,
  ...
}

InformationExchangeInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-InformationExchangeID CRITICALITY ignore TYPE InformationExchangeID  PRESENCE mandatory }|
  { ID id-Cause CRITICALITY ignore TYPE Cause  PRESENCE mandatory }|
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics  PRESENCE optional },
}

InformationExchangeInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- **************************************************************
-- INFORMATION REPORT
-- **************************************************************
InformationReport ::= SEQUENCE {
  protocolIEs  ProtocolIE-Container  {{InformationReport-IEs}},
  protocolExtensions  ProtocolExtensionContainer  {{InformationReport-Extensions}}  OPTIONAL,
  ...
}

InformationReport-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-InformationExchangeID      CRITICALITY ignore TYPE InformationExchangeID      PRESENCE mandatory }|
  { ID id-InformationExchangeObjectType-InfEx-Rprt CRITICALITY ignore TYPE InformationExchangeObjectType-InfEx-Rprt  PRESENCE mandatory },
  ...
}

InformationReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

InformationExchangeObjectType-InfEx-Rprt ::= CHOICE {
  cell       Cell-Inf-Rprt,
  ...
}

Cell-Inf-Rprt ::= SEQUENCE {
  requestedDataValueInformation RequestedDataValueInformation,
  iE-Extensions     ProtocolExtensionContainer  {{ CellItem-Inf-Rprt-ExtIEs }}  OPTIONAL,
  ...
}

CellItem-Inf-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- ******************************************************************************
-- INFORMATION EXCHANGE TERMINATION REQUEST
-- ******************************************************************************

InformationExchangeTerminationRequest ::= SEQUENCE {
  protocolIEs  ProtocolIE-Container  {{InformationExchangeTerminationRequest-IEs}},
  protocolExtensions  ProtocolExtensionContainer  {{InformationExchangeTerminationRequest-Extensions}}  OPTIONAL,
  ...
}

InformationExchangeTerminationRequest-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-InformationExchangeID   CRITICALITY ignore    TYPE InformationExchangeID   PRESENCE mandatory},  ...
}

InformationExchangeTerminationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
... {
    ... -- ****************************
    ... -- INFORMATION EXCHANGE FAILURE INDICATION
    ... -- ****************************

    InformationExchangeFailureIndication ::= SEQUENCE {
        protocolIEs ProtocolIE-Container {{InformationExchangeFailureIndication-IEs}},
        protocolExtensions ProtocolExtensionContainer {{InformationExchangeFailureIndication-Extensions}} OPTIONAL,
    } ...

    InformationExchangeFailureIndication-IEs NBAP-PROTOCOL-IES ::= {
        { ID id-InformationExchangeID CRITICALITY ignore TYPE InformationExchangeID PRESENCE mandatory |} |
        { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory },
    } ...

    InformationExchangeFailureIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    } ...

    ... -- ****************************
    ... -- CELL SYNCHRONISATION INITIATION REQUEST TDD
    ... -- ****************************

    CellSynchronisationInitiationRequestTDD ::= SEQUENCE {
        protocolIEs ProtocolIE-Container {{CellSynchronisationInitiationRequestTDD-IEs}},
        protocolExtensions ProtocolExtensionContainer {{CellSynchronisationInitiationRequestTDD-Extensions}} OPTIONAL,
    } ...

    CellSynchronisationInitiationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
        { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory } |
        { ID id-cellSyncBurstRepetitionPeriod CRITICALITY reject TYPE CellSyncBurstRepetitionPeriod PRESENCE mandatory },
        { ID id-timeslotInfo-CellSyncInitiationRqstTDD CRITICALITY reject TYPE TimeslotInfo-CellSyncInitiationRqstTDD PRESENCE optional } | -- Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.
        { ID id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD CRITICALITY reject TYPE CellSyncBurstTransInit-CellSyncInitiationRqstTDD PRESENCE optional } | -- Applicable to 3.84Mcps TDD only
        { ID id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD CRITICALITY reject TYPE CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD PRESENCE optional }, -- Applicable to 3.84Mcps TDD only
    } ...

    CellSynchronisationInitiationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
        { ID id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD CRITICALITY reject EXTENSION SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD PRESENCE optional } | -- Applicable to 1.28Mcps TDD only
    } ...
{ ID id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD CRITICALITY reject EXTENSION SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD PRESENCE optional },  -- Applicable to 1.28Mcps TDD only
...

TimeslotInfo-CellSyncInitiationRqstTDD ::= SEQUENCE (SIZE (1..15)) OF TimeSlot

CellSyncBurstTransInit-CellSyncInitiationRqstTDD ::= SEQUENCE {
  cSBTransmissionID CSBTransmissionID,
  sfn SPN,
  cellSyncBurstCode CellSyncBurstCode,
  cellSyncBurstCodeShift CellSyncBurstCodeShift,
  initialDLTransPower DL-Power,
  iE-Extensions ProtocolExtensionContainer { { CellSyncBurstTransInit-CellSyncInitiationRqstTDD-ExtIEs } }
  OPTIONAL,
...
}

CellSyncBurstTransInit-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD ::= SEQUENCE {
  cSBMeasurementID CSBMeasurementID,
  cellSyncBurstCode CellSyncBurstCode,
  cellSyncBurstCodeShift CellSyncBurstCodeShift,
  synchronisationReportType SynchronisationReportType,
  sfn SPN OPTIONAL,
  synchronisationReportCharacteristics SynchronisationReportCharacteristics,
  iE-Extensions ProtocolExtensionContainer { { CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD-ExtIEs } }
  OPTIONAL,
...
}

CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD ::= SEQUENCE {
  cSBTransmissionID CSBTransmissionID,
  sfn SPN,
  uARFCN UARFCN,
  SYNCDlCodeId SYNCDlCodeId,
  dwPCH-Power DwPCH-Power,
  iE-Extensions ProtocolExtensionContainer { { SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD-ExtIEs } }
  OPTIONAL,
...
}

SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD ::= SEQUENCE {
cSBMeasurementID               CSBMeasurementID, 
spn                SPN, OPTIONAL, 
uARFCN              UARFCN, 
sYNCDlCodeId        SYNCDlCodeId, 
synchronisationReportType SynchronisationReportType, 
synchronisationReportCharacteristics SynchronisationReportCharacteristics, 
iE-Extensions       ProtocolExtensionContainer { { SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD-ExtIEs } } OPTIONAL, 
... 

SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
... 
}

-- ********** CELL SYNCHRONISATION INITIATION RESPONSE TDD
-- **********

CellSynchronisationInitiationResponseTDD ::= SEQUENCE { 
  protocolIEs      ProtocolIE-Container  {{CellSynchronisationInitiationResponseTDD-IEs}}, 
  protocolExtensions ProtocolExtensionContainer {{CellSynchronisationInitiationResponseTDD-Extensions}}     OPTIONAL, 
... 
}

CellSynchronisationInitiationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { 
... 
}

CellSynchronisationInitiationResponseTDD-IEs NBAP-PROTOCOL-IES ::= { 
  { ID id-CriticalityDiagnostics CRITICALITY ignore : TYPE CriticalityDiagnostics PRESENCE optional }, 
... 
}

-- ********** CELL SYNCHRONISATION INITIATION FAILURE TDD
-- **********

CellSynchronisationInitiationFailureTDD ::= SEQUENCE { 
  protocolIEs      ProtocolIE-Container  {{CellSynchronisationInitiationFailureTDD-IEs}}, 
  protocolExtensions ProtocolExtensionContainer {{CellSynchronisationInitiationFailureTDD-Extensions}}     OPTIONAL, 
... 
}

CellSynchronisationInitiationFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { 
... 
}

CellSynchronisationInitiationFailureTDD-IEs NBAP-PROTOCOL-IES ::= { 
  { ID id-Cause CRITICALITY ignore : TYPE Cause PRESENCE mandatory }, 
... 
}
CellSynchronisationReconfigurationRequestTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{CellSynchronisationReconfigurationRequestTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CellSynchronisationReconfigurationRequestTDD-Extensions}} OPTIONAL,
...
}

CellSynchronisationReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IEs ::= {
  { ID id-C-ID CRITICALITY reject TYPE C-ID PRESENCE mandatory },
  { ID id-TimeSlot CRITICALITY reject TYPE TimeSlot PRESENCE mandatory },
  -- Applicable to 3.84Mcps TDD only. For 1.28Mcps TDD, the CRNC should set this to 0 and the Node B shall ignore it.
  { ID id-NCyclesPerSFNperiod CRITICALITY reject TYPE NCyclesPerSFNperiod PRESENCE mandatory },
  { ID id-NRepetitionsPerCyclePeriod CRITICALITY reject TYPE NRepetitionsPerCyclePeriod PRESENCE mandatory },
  { ID id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD CRITICALITY reject TYPE CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD PRESENCE optional },
  { ID id-CellSyncBurstMeasReconfInfo-CellSyncReconfRqstTDD CRITICALITY reject TYPE CellSyncBurstMeasInfo-CellSyncReconfRqstTDD PRESENCE optional },
...
}

CellSynchronisationReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD CRITICALITY reject EXTENSION NSubCyclesPerCyclePeriod PRESENCE optional },
  { ID id-SYNCdlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD CRITICALITY reject EXTENSION SYNCdlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD PRESENCE optional },
  { ID id-SYNCdlCodeIdMeasReconfInfoLCR-CellSyncReconfRqstTDD CRITICALITY reject EXTENSION SYNCdlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD PRESENCE optional },
...
}

CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD

CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
  cSBTransmissionID CSBTransmissionID,  
  syncFrameNumberTo Transmit SyncFrameNumber,  
  cellSyncBurstCode CellSyncBurstCode OPTIONAL,  
  cellSyncBurstCodeShift CellSyncBurstCodeShift OPTIONAL,  
  dITransPower DL-Power OPTIONAL,  
  iE-Extensions ProtocolExtensionContainer {{ CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD-ExtIEs }},
  ...
}
CellSyncBurstTransInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CellSyncBurstMeasInfo-CellSyncReconfRqstTDD ::= SEQUENCE {
  cellSyncBurstMeasInfoList-CellSyncReconfRqstTDD CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,
  synchronisationReportType SynchronisationReportTypeIE OPTIONAL,
  synchronisationReportCharacteristics SynchronisationReportCharacteristicsIE OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { CellSyncBurstMeasInfo-CellSyncReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}


CellSyncBurstMeasInfoListIEs-CellSyncReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD CRITICALITY reject TYPE CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD PRESENCE mandatory } }

SynchronisationReportTypeIE ::= ProtocolIE-Single-Container {{ SynchronisationReportTypeIEs }}

SynchronisationReportTypeIEs NBAP-PROTOCOL-IES ::= {
  { ID id-SynchronisationReportType CRITICALITY reject TYPE SynchronisationReportType PRESENCE mandatory } }

SynchronisationReportCharacteristicsIE ::= ProtocolIE-Single-Container {{ SynchronisationReportCharacteristicsIEs }}

SynchronisationReportCharacteristicsIEs NBAP-PROTOCOL-IES ::= {
  { ID id-SynchronisationReportCharacteristics CRITICALITY reject TYPE SynchronisationReportCharacteristics PRESENCE mandatory } }

CellSyncBurstMeasInfoListIE-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD

CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
  syncFrameNrToReceive SyncFrameNumber,
  syncBurstInfo CellSyncBurstInfoList-CellSyncReconfRqstTDD,
  iE-Extensions ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

CellSyncBurstMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
CellSyncBurstInfoList-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfoItem-CellSyncReconfRqstTDD

CellSyncBurstInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
  cSBMeasurementID         CSBMeasurementID,
  cellSyncBurstCode         CellSyncBurstCode,
  cellSyncBurstCodeShift    CellSyncBurstCodeShift,
  iE-Extensions             ProtocolExtensionContainer { { CellSyncBurstInfoItem-CellSyncReconfRqstTDD-ExtIEs } }
  OPTIONAL,
  ...
}

CellSyncBurstInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSyncFramesLCR)) OF SYNCDlCodeIdTransReconfItemLCR-CellSyncReconfRqstTDD

SYNCDlCodeIdTransReconfItemLCR-CellSyncReconfRqstTDD ::= SEQUENCE {
  cSBTransmissionID         CSBTransmissionID,
  syncFrameNumberforTransmit SyncFrameNumber,
  uARFCN                    UARFCN,
  sYNCDlCodeId              SYNCDlCodeId OPTIONAL,
  dwPCH-Power               DwPCH-Power OPTIONAL,
  iE-Extensions             ProtocolExtensionContainer { { SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD-ExtIEs } }
  OPTIONAL,
  ...
}

SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD ::= SEQUENCE {
}

SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD ::= SEQUENCE {
  SYNCDlCodeIdMeasInfoList    SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD,
  synchronisationReportType   SynchronisationReportType OPTIONAL,
  synchronisationReportCharacteristics SynchronisationReportCharacteristics OPTIONAL,
  iE-Extensions               ProtocolExtensionContainer { { SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs } } OPTIONAL,
  ...
}

SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SYNCDlCodeIdMeasInfoLCR-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfSyncDLCodesLCR)) OF SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD

SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD ::= SEQUENCE {
  syncFrameNrToReceive      SyncFrameNumber,
SYNCDlCodeIdInfoListLCR-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfReceptionsperSyncFrameLCR)) OF SYNCDlCodeIdInfoItemLCR-CellSyncReconfRqstTDD

SYNCDlCodeIdInfoItemLCR-CellSyncReconfRqstTDD ::= SEQUENCE {
cSBMeasurementID       CSBMeasurementID,  
sYNCDlCodeId        SYNCDlCodeId,  
uARFCN          UARFCN,  
propagationDelayCompensation    TimingAdjustmentValueLCR  OPTIONAL,  
iE-Extensions        ProtocolExtensionContainer { { SYNCDlCodeIdInfoItemLCR-CellSyncReconfRqstTDD-ExtIEs} }  OPTIONAL,  
...  }

SYNCDlCodeIdMeasInfoItem-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...  }

SYNCDlCodeIdInfoListLCLR-CellSyncReconfRqstTDD ::= SEQUENCE (SIZE (1.. maxNrOfReceptionsperSyncFrameLCR)) OF SYNCDlCodeIdInfoItemLCLR-CellSyncReconfRqstTDD

SYNCDlCodeIdInfoItemLCLR-CellSyncReconfRqstTDD ::= SEQUENCE {
cSBMeasurementID       CSBMeasurementID,  
sYNCDlCodeId        SYNCDlCodeId,  
uARFCN          UARFCN,  
propagationDelayCompensation    TimingAdjustmentValueLCR  OPTIONAL,  
iE-Extensions        ProtocolExtensionContainer { { SYNCDlCodeIdInfoItemLCLR-CellSyncReconfRqstTDD-ExtIEs} }  OPTIONAL,  
...  }

SYNCDlCodeIdInfoItemLCLR-CellSyncReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...  }

-- ************************************************************** --
-- CELL SYNCHRONISATION RECONFIGURATION RESPONSE TDD
-- ************************************************************** --

CellSynchronisationReconfigurationResponseTDD ::= SEQUENCE {
protocolIEs    ProtocolIE-Container  {{CellSynchronisationReconfigurationResponseTDD-IEs}},  
protocolExtensions  ProtocolExtensionContainer {{CellSynchronisationReconfigurationResponseTDD-Extensions}}  OPTIONAL,  
...  }

CellSynchronisationReconfigurationResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...  }

CellSynchronisationReconfigurationResponseTDD-IEs NBAP-PROTOCOL-IESS ::= {
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE  
optional },  
...  }

-- ************************************************************** --
-- CELL SYNCHRONISATION RECONFIGURATION FAILURE TDD
-- ************************************************************** --
CellSynchronisationReconfigurationFailureTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{CellSynchronisationReconfigurationFailureTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CellSynchronisationReconfigurationFailureTDD-Extensions}} OPTIONAL,
  ...
}

CellSynchronisationReconfigurationFailureTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...

CellSynchronisationReconfigurationFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory },
  { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
  ...
}

-- ************************************************************
-- CELL SYNCHRONISATION ADJUSTMENT REQUEST TDD
-- ************************************************************

CellSynchronisationAdjustmentRequestTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{CellSynchronisationAdjustmentRequestTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{CellSynchronisationAdjustmentRequestTDD-Extensions}} OPTIONAL,
  ...
}

CellSynchronisationAdjustmentRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...

CellSynchronisationAdjustmentRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CellAdjustmentInfo-SyncAdjustmentRqstTDD CRITICALITY ignore TYPE CellAdjustmentInfo-SyncAdjustmentRqstTDD PRESENCE mandatory },
  ...
}

CellAdjustmentInfo-SyncAdjustmentRqstTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ CellAdjustmentInfoItemIE-SyncAdjustmntRqstTDD }}

CellAdjustmentInfoItemIE-SyncAdjustmntRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD CRITICALITY ignore TYPE CellAdjustmentInfoItem-SyncAdjustmentRqstTDD PRESENCE mandatory }
}

CellAdjustmentInfoItem-SyncAdjustmentRqstTDD ::= SEQUENCE {
  c-ID C-ID,
  frameAdjustmentValue FrameAdjustmentValue OPTIONAL,
  timingAdjustmentValue TimingAdjustmentValue OPTIONAL,
  dLTransPower DL-Power OPTIONAL, -- Applicable to 3.84Mcps TDD only
  sfm SNF OPTIONAL,
  ...
}
CELL SYNCHRONISATION ADJUSTMENT RESPONSE TDD

```
CellSynchronisationAdjustmentResponseTDD ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{CellSynchronisationAdjustmentResponseTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CellSynchronisationAdjustmentResponseTDD-Extensions}}     OPTIONAL,
    ...}
```

CellSynchronisationAdjustmentResponseTDD-IEs NBAP-PROTOCOL-IES ::= {
```
{ ID id-CriticalityDiagnostics   CRITICALITY  ignore  TYPE CriticalityDiagnostics
    PRESENCE optional },
...}
```

CELL SYNCHRONISATION ADJUSTMENT FAILURE TDD

```
CellSynchronisationAdjustmentFailureTDD ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{CellSynchronisationAdjustmentFailureTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CellSynchronisationAdjustmentFailureTDD-Extensions}}     OPTIONAL,
    ...}
```

CellSynchronisationAdjustmentFailureTDD-IEs NBAP-PROTOCOL-IES ::= {
```
{ ID id-CauseLevel-SyncAdjustmentFailureTDD CRITICALITY ignore  TYPE CauseLevel-SyncAdjustmentFailureTDD
    PRESENCE mandatory },
```
 CauseLevel-SyncAdjustmBntFailureTDD ::= CHOICE {
    generalCause     GeneralCauseList-SyncAdjustmentFailureTDD,
    cellSpecificCause CellSpecificCauseList-SyncAdjustmentFailureTDD,
    ...
 }

 GeneralCauseList-SyncAdjustmentFailureTDD ::= SEQUENCE {
    cause          Cause,
    iE-Extensions  ProtocolExtensionContainer { { GeneralCauseList-SyncAdjustmentFailureTDD-ExtIEs} } OPTIONAL,
    ...
 }

 GeneralCauseList-SyncAdjustmentFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
 }

 CellSpecificCauseList-SyncAdjustmentFailureTDD ::= SEQUENCE {
    Unsuccessful-cell-InformationRespList-SyncAdjustmentFailureTDD Unsuccessful-cell-InformationRespList-SyncAdjustmentFailureTDD,
    iE-Extensions  ProtocolExtensionContainer { { CellSpecificCauseList-SyncAdjustmentFailureTDD-ExtIEs} } OPTIONAL,
    ...
 }

 CellSpecificCauseList-SyncAdjustmentFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
 }

 Unsuccessful-cell-InformationRespList-SyncAdjustmentFailureTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container
    {Unsuccessful-cell-InformationRespItemIE-SyncAdjustmentFailureTDD }

 Unsuccessful-cell-InformationRespItemIE-SyncAdjustmentFailureTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Unsuccessful-cell-InformationRespItem-SyncAdjustmentFailureTDD CRITICALITY ignore TYPE Unsuccessful-cell-InformationRespItem-SyncAdjustmentFailureTDD PRESENCE mandatory},
    ...
 }

 Unsuccessful-cell-InformationRespItem-SyncAdjustmentFailureTDD ::= SEQUENCE {
    c-ID          C-ID,
    cause          Cause,
    iE-Extensions  ProtocolExtensionContainer { { Unsuccessful-cell-InformationRespItem-SyncAdjustmentFailureTDD-ExtIEs} } OPTIONAL,
    ...
 }

 Unsuccessful-cell-InformationRespItem-SyncAdjustmentFailureTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
 }
-- ******************************************************************************
-- CELL SYNCHRONISATION TERMINATION REQUEST TDD
-- ******************************************************************************

CellSynchronisationTerminationRequestTDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{CellSynchronisationTerminationRequestTDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CellSynchronisationTerminationRequestTDD-Extensions}} OPTIONAL,
  ...
}

CellSynchronisationTerminationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CellSynchronisationTerminationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID       CRITICALITY  ignore  TYPE C-ID       PRESENCE mandatory },
  { ID id-CSBTransmissionID   CRITICALITY  ignore  TYPE CSBTransmissionID    PRESENCE optional  },
  { ID id-CSBMeasurementID    CRITICALITY  ignore  TYPE CSBMeasurementID    PRESENCE optional  },
  ...
}

-- ******************************************************************************
-- CELL SYNCHRONISATION FAILURE INDICATION TDD
-- ******************************************************************************

CellSynchronisationFailureIndicationTDD ::= SEQUENCE {
  protocolIEs    ProtocolIE-Container  {{CellSynchronisationFailureIndicationTDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{CellSynchronisationFailureIndicationTDD-Extensions}} OPTIONAL,
  ...
}

CellSynchronisationFailureIndicationTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CellSynchronisationFailureIndicationTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-C-ID       CRITICALITY  ignore  TYPE C-ID       PRESENCE mandatory },
  { ID id-CSBTransmissionID   CRITICALITY  ignore  TYPE CSBTransmissionID    PRESENCE optional  },
  { ID id-CSBMeasurementID    CRITICALITY  ignore  TYPE CSBMeasurementID    PRESENCE optional  },
  { ID id-Cause      CRITICALITY  ignore  TYPE Cause       PRESENCE mandatory },
  ...
}
CellSynchronisationReportTDD ::= SEQUENCE {
    protocolIEs    ProtocolIE-Container  {{CellSynchronisationReportTDD-IEs}},
    protocolExtensions  ProtocolExtensionContainer {{CellSynchronisationReportTDD-Extensions}}     OPTIONAL,
    ...
}

CellSynchronisationReportTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CellSynchronisationReportTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-CellSyncInfo-CellSyncReprtTDD  CRITICALITY ignore  TYPE CellSyncInfo-CellSyncReprtTDD   PRESENCE mandatory}
},
...

CellSyncInfo-CellSyncReprtTDD ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF CellSyncInfoItemIE-CellSyncReprtTDD

CellSyncInfoItemIE-CellSyncReprtTDD ::= SEQUENCE {
    c-ID-CellSyncReprtTDD    C-ID-IE-CellSyncReprtTDD,
    syncReportType-CellSyncReprtTDD  SyncReportTypeIE-CellSyncReprtTDD  OPTIONAL,
    ...
}

C-ID-IE-CellSyncReprtTDD ::= ProtocolIE-Single-Container {{ C-ID-IEs-CellSyncReprtTDD }}

C-ID-IEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID      CRITICALITY ignore   TYPE C-ID     PRESENCE mandatory }
}

SyncReportTypeIE-CellSyncReprtTDD ::= ProtocolIE-Single-Container {{ SyncReportTypeIEs-CellSyncReprtTDD }}

SyncReportTypeIEs-CellSyncReprtTDD NBAP-PROTOCOL-IES ::= {
    { ID id-SyncReportType-CellSyncReprtTDD CRITICALITY ignore  TYPE SyncReportType-CellSyncReprtTDD   PRESENCE mandatory }
}

SyncReportType-CellSyncReprtTDD ::= CHOICE {
    intStdPhSyncInfo-CellSyncReprtTDD  IntStdPhCellSyncInfo-CellSyncReprtTDD,
    lateEntrantCell       NULL,
    frequencyAcquisition     NULL,
    ...
}

IntStdPhCellSyncInfo-CellSyncReprtTDD ::= SEQUENCE {
    cellsyncBurstMeasInformationInfoList    CellSyncBurstMeasInfoList-CellSyncReprtTDD,
    iE-Extensions                  ProtocolExtensionContainer {{ IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs}
    OPTIONAL,
IntStdPhCellSyncInfoList-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-AccumulatedClockupdate-CellSyncReprtTDD  CRITICALITY ignore EXTENSION TimingAdjustmentValue PRESENCE optional }|
  { ID id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD  CRITICALITY ignore EXTENSION SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD PRESENCE optional }, -- Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.

CellSyncBurstMeasInfoList-CellSyncReprtTDD ::= SEQUENCE (SIZE (0.. maxNrOfCellSyncBursts)) OF CellSyncBurstMeasInfoItem-CellSyncReprtTDD -- Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.

CellSyncBurstMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE {
  sFN          SFN,
  cellSyncBurstInfo-CellSyncReprtTDD  SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF CellSyncBurstInfo-CellSyncReprtTDD,
  iE-Extensions       ProtocolExtensionContainer { { CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs} }  OPTIONAL,
  ...
}

CellSyncBurstMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CellSyncBurstInfo-CellSyncReprtTDD ::= CHOICE {
  cellSyncBurstAvailable  CellSyncBurstAvailable-CellSyncReprtTDD,
  cellSyncBurstNotAvailable NULL,
  ...
}

CellSyncBurstAvailable-CellSyncReprtTDD ::= SEQUENCE {
  cellSyncBurstTiming   CellSyncBurstTiming,
  cellSyncBurstSIR   CellSyncBurstSIR,
  iE-Extensions       ProtocolExtensionContainer { { CellSyncBurstAvailable-CellSyncReprtTDD-ExtIEs} }  OPTIONAL,
  ...
}

CellSyncBurstAvailable-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD ::= SEQUENCE (SIZE (0..maxNrOfSyncFramesLCR)) OF SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD -- Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.

SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD ::= SEQUENCE {
  sFN,  
  syncDLCodeIdInfo-CellSyncReprtTDD  SyncDLCodeIdInfo-CellSyncReprtTDD,
  iE-Extensions       ProtocolExtensionContainer { { SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD-ExtIEs } }  OPTIONAL,
  ...
}

SyncDLCodeIdsMeasInfoItem-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
SyncDLCodeIdInfo-CellSyncReprtTDD ::= SEQUENCE {size (1..maxNrOfReceptionsperSyncFrameLCR)} OF SyncDLCodeIdItem-CellSyncReprtTDD

SyncDLCodeIdItem-CellSyncReprtTDD ::= CHOICE {
  syncDLCodeIdAvailable     SyncDLCodeIdAvailable-CellSyncReprtTDD,
  syncDLCodeIDNotAvailable   NULL,
  ...
}

SyncDLCodeIdAvailable-CellSyncReprtTDD ::= SEQUENCE {
  syncDLCodeIdTiming         CellSyncBurstTimingLCR,
  syncDLCodeIdSIR            CellSyncBurstSIR,
  iE-Extensions              ProtocolExtensionContainer {{ SyncDLCodeIdAvailable-CellSyncReprtTDD-ExtIEs }},
  ...
}

SyncDLCodeIdAvailable-CellSyncReprtTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

BearerRearrangementIndication ::= SEQUENCE {
  protocolIEs                    ProtocolIE-Container {{BearerRearrangementIndication-IEs}},
  protocolExtensions             ProtocolExtensionContainer {{BearerRearrangementIndication-Extensions}} OPTIONAL,
  ...
}

BearerRearrangementIndication-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID     CRITICALITY ignore TYPE CRNC-CommunicationContextID mandatory } |
  { ID id-SignallingBearerRequestIndicator   CRITICALITY ignore TYPE SignallingBearerRequestIndicator optional } |
  { ID id-DCH-RearrangeList-Bearer-RearrangeInd CRITICALITY ignore TYPE DCH-RearrangeList-Bearer-RearrangeInd optional } |
  { ID id-DSCH-RearrangeList-Bearer-RearrangeInd CRITICALITY ignore TYPE DSCH-RearrangeList-Bearer-RearrangeInd optional } |
  { ID id-USCH-RearrangeList-Bearer-RearrangeInd CRITICALITY ignore TYPE USCH-RearrangeList-Bearer-RearrangeInd optional } |
  { ID id-HSDSCH-RearrangeList-Bearer-RearrangeInd CRITICALITY ignore TYPE HSDSCH-RearrangeList-Bearer-RearrangeInd optional },
  ...
}

BearerRearrangementIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-DCH-RearrangeList-Bearer-RearrangeInd CRITICALITY ignore EXTENSION E-DCH-RearrangeList-Bearer-RearrangeInd PRESENCE optional },
  ...
}
DCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE { dCH-ID           DCH-ID, 
    iE-Extensions         ProtocolExtensionContainer { { DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} } 
    OPTIONAL, 
    ... 
}

DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfDSCCHs)) OF DSCH-RearrangeItem-Bearer-RearrangeInd

DSCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE { dSCH-ID           DSCH-ID, 
    iE-Extensions         ProtocolExtensionContainer { { DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} } 
    OPTIONAL, 
    ... 
}

DSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-RearrangeItem-Bearer-RearrangeInd

USCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE { uSCH-ID           USCH-ID, 
    iE-Extensions         ProtocolExtensionContainer { { USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} } 
    OPTIONAL, 
    ... 
}

USCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-RearrangeItem-Bearer-RearrangeInd

HSDSCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE { hsDSCH-MACdFlow-ID        HSDSCH-MACdFlow-ID, 
    iE-Extensions         ProtocolExtensionContainer { { HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} } 
    OPTIONAL, 
    ... 
}

HSDSCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
E-DCH-RearrangeList-Bearer-RearrangeInd ::= SEQUENCE (SIZE (1.. maxNrOfEDCHMACdFlows)) OF E-DCH-RearrangeItem-Bearer-RearrangeInd

E-DCH-RearrangeItem-Bearer-RearrangeInd ::= SEQUENCE {
  e-DCH-MACdFlow-ID E-DCH-MACdFlow-ID,
  iE-Extensions ProtocolExtensionContainer { { E-DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs} } OPTIONAL,
  ... }

E-DCH-RearrangeItem-Bearer-RearrangeInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Additional-EDCH-Cell-Information-Bearer-Rearrangement CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-Bearer-Rearrangement-List PRESENCE optional },
  ...
}

Additional-EDCH-Cell-Information-Bearer-Rearrangement-List ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-Bearer-Rearrangement-ItemIEs

Additional-EDCH-Cell-Information-Bearer-Rearrangement-ItemIEs ::= SEQUENCE {
  transport-Bearer-Rearrangement-Indicator-for-Additional-EDCH-Separate-Mode Transport-Bearer-Rearrangement-Indicator-for-Additional-EDCH-Separate-Mode,
  iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-Bearer-Rearrangement-ItemIEs-ExtIEs} } OPTIONAL,
  ... }

Additional-EDCH-Cell-Information-Bearer-Rearrangement-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Transport-Bearer-Rearrangement-Indicator-for-Additional-EDCH-Separate-Mode ::= ENUMERATED {
  bearer-for-primary-carrier,
  bearer-for-secondary-carrier,
  bearers-for-both-primary-and-secondary-carriers,
  ... }

-- ************************************************************
-- RADIO LINK ACTIVATION COMMAND FDD
-- ************************************************************

RadioLinkActivationCommandFDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkActivationCommandFDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkActivationCommandFDD-Extensions}} OPTIONAL,
  ...
}

RadioLinkActivationCommandFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID PRESENCE mandatory }|

...
RadioLinkActivationCommandFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

DelayedActivationInformationList-RL-ActivationCmdFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {
{ DelayedActivationInformation-RL-ActivationCmdFDD-IEs}
}

DelayedActivationInformation-RL-ActivationCmdFDD-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-DelayedActivationInformation-RL-ActivationCmdFDD CRITICALITY ignore TYPE DelayedActivationInformation-RL-ActivationCmdFDD
PRESENCE optional }, ...
}

DelayedActivationInformation-RL-ActivationCmdFDD ::= SEQUENCE {
  rL-ID RL-ID,
delayed-activation-update DelayedActivationUpdate,
iE-Extensions ProtocolExtensionContainer { { DelayedActivationInformation-RL-ActivationCmdFDD-ExtIEs} } OPTIONAL,
...
}

DelayedActivationInformation-RL-ActivationCmdFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- ************************************************************
-- RADIO LINK ACTIVATION COMMAND TDD
-- ************************************************************

RadioLinkActivationCommandTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkActivationCommandTDD-IEs}},
  protocolExtensions ProtocolExtensionContainer {{RadioLinkActivationCommandTDD-Extensions}} OPTIONAL,
...
}

RadioLinkActivationCommandTDD-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-NodeB-CommunicationContextID CRITICALITY ignore TYPE NodeB-CommunicationContextID
PRESENCE mandatory },
{ ID id-DelayedActivationList-RL-ActivationCmdTDD CRITICALITY ignore TYPE DelayedActivationInformationList-RL-ActivationCmdTDD
PRESENCE mandatory },
...
}

RadioLinkActivationCommandTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

DelayedActivationInformationList-RL-ActivationCmdTDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {
{ DelayedActivationInformation-RL-ActivationCmdTDD-IEs}
}
DelayedActivationInformation-RL-ActivationCmdTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-DelayedActivationInformation-RL-ActivationCmdTDD CRITICALITY ignore TYPE DelayedActivationInformation-RL-ActivationCmdTDD PRESENCE optional }
}

DelayedActivationInformation-RL-ActivationCmdTDD ::= SEQUENCE {
  RL-ID RL-ID, 
  delayed-activation-update DelayedActivationUpdate, 
  iE-Extensions ProtocolExtensionContainer { { DelayedActivationInformation-RL-ActivationCmdTDD-ExtIEs} } OPTIONAL, 
  ...
}

DelayedActivationInformation-RL-ActivationCmdTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- ************************************************************
-- RADIO LINK PARAMETER UPDATE INDICATION FDD
-- ************************************************************

RadioLinkParameterUpdateIndicationFDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container {{RadioLinkParameterUpdateIndicationFDD-IEs}}, 
  protocolExtensions ProtocolExtensionContainer {{RadioLinkParameterUpdateIndicationFDD-Extensions}} OPTIONAL, 
  ...
}

RadioLinkParameterUpdateIndicationFDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } | 
  { ID id-HSDSCH-FDD-Update-Information CRITICALITY ignore TYPE HSDSCH-FDD-Update-Information PRESENCE optional }, 
  ...
}

RadioLinkParameterUpdateIndicationFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-DCH-FDD-Update-Information CRITICALITY ignore EXTENSION E-DCH-FDD-Update-Information PRESENCE optional } | 
  { ID id-Additional-HS-Cell-Information-RL-Param-Upd CRITICALITY ignore EXTENSION Additional-HS-Cell-Information-RL-Param-Upd PRESENCE optional } | 
  { ID id-Additional-EDCH-Cell-Information-RL-Param-Upd CRITICALITY ignore EXTENSION Additional-EDCH-Cell-Information-RL-Param-Upd PRESENCE optional }, 
  ...
}

Additional-HS-Cell-Information-RL-Param-Upd ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Additional-HS-Cell-Information-RL-Param-Upd-ItemIEs

Additional-HS-Cell-Information-RL-Param-Upd-ItemIEs ::=SEQUENCE{
  hSPDSCH-RL-ID RL-ID, 
  hS-DSDCH-FDD-Secondary-Serving-Update-Information HSDSCH-FDD-Secondary-Serving-Update-Information, 
  iE-Extensions ProtocolExtensionContainer { { Additional-HS-Cell-Information-RL-Setup-ExtIEs} } OPTIONAL, 
  ...

ETSI
Additional-HS-Cell-Information-RL-Setup-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

Additional-EDCH-Cell-Information-RL-Param-Upd ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-Cell-Information-RL-Param-Upd-ItemIEs

Additional-EDCH-Cell-Information-RL-Param-Upd-ItemIEs ::= SEQUENCE{
  additional-EDCH-FDD-Update-Information Additional-EDCH-FDD-Update-Information,
  iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-RL-Param-Upd-ItemIEs-ExtIEs } } OPTIONAL,
  ... 
}

Additional-EDCH-Cell-Information-RL-Param-Upd-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

-- ************************************************************************************************
-- -- RADIO LINK PARAMETER UPDATE INDICATION TDD
-- ************************************************************************************************

RadioLinkParameterUpdateIndicationTDD ::= SEQUENCE {
  protocolIEs ProtocolIE-Container  {{RadioLinkParameterUpdateIndicationTDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkParameterUpdateIndicationTDD-Extensions}}  OPTIONAL,
  ... 
}

RadioLinkParameterUpdateIndicationTDD-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } |
  { ID id-HSDSCH-TDD-Update-Information CRITICALITY ignore TYPE HSDSCH-TDD-Update-Information PRESENCE optional },
  ... 
}

RadioLinkParameterUpdateIndicationTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

-- ************************************************************************************************
-- -- MBMS NOTIFICATION UPDATE COMMAND
-- ************************************************************************************************

MBMSNotificationUpdateCommand ::= SEQUENCE {
  protocolIEs ProtocolIE-Container  {{ MBMSNotificationUpdateCommand-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{ MBMSNotificationUpdateCommand-Extensions}}  OPTIONAL,
  ... 
}

MBMSNotificationUpdateCommand-IEs NBAP-PROTOCOL-IES ::= {
  ... 
}

MBMSNotificationUpdateCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}
MBMSNotificationUpdateCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {

...

-- *******************************************************************************
--  UE STATUS UPDATE COMMAND
-- *******************************************************************************

UEStatusUpdateCommand ::= SEQUENCE {  protocolIEs     ProtocolIE-Container  {{UEStatusUpdateCommand-IEs}},  protocolExtensions  ProtocolExtensionContainer  {{UEStatusUpdateCommand-Extensions}}   OPTIONAL,

...

}

UEStatusUpdateCommand-IEs NBAP-PROTOCOL-IES ::= {

{ ID id-Cell-ERNTI-Status-Information     CRITICALITY ignore TYPE Cell-ERNTI-Status-Information  PRESENCE mandatory }

...

}

UEStatusUpdateCommand-Extensions NBAP-PROTOCOL-EXTENSION ::= {

...

-- *******************************************************************************
--  SECONDARY UL FREQUENCY REPORT
-- *******************************************************************************


...

}

SecondaryULFrequencyReport-IEs NBAP-PROTOCOL-IES ::= {

...
SecondaryULFrequencyReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...
}

-- ***************************************************************
-- SECONDARY UL FREQUENCY UPDATE INDICATION
-- ***************************************************************

SecondaryULFrequencyUpdateIndication ::= SEQUENCE {
protoIEs ProtocolIE-Container {{SecondaryULFrequencyUpdateIndication-IEs}},
protoExtensions ProtocolExtensionContainer {{SecondaryULFrequencyUpdateIndication-Extensions}} OPTIONAL,
...}

SecondaryULFrequencyUpdateIndication-IEs NBAP-PROTOCOL-IES ::= {
{ ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory }|
{ ID id-ActivationInformation CRITICALITY ignore TYPE ActivationInformation PRESENCE mandatory },
...}

SecondaryULFrequencyUpdateIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
...}

END

9.3.4 Information Elements Definitions

--..................................................
-- Information Element Definitions
--..................................................

NBAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::= BEGIN
IMPORTS
maxNrOfRLs,

ETSI
maxNrOfTFcs, maxNrOfErrors, maxCTFC, maxNrOfTFs, maxTTI-count, maxRateMatching, maxHS-FDSCHCodeNrComp-1, maxHS-SCCHCodeNrComp-1, maxNrOfCellSyncBursts, maxNrOfCombiEDPDCCH, maxNrOfEDCH-HARQ-PO-QUANTSTEPs, maxNrOfEDCHHARQProcesses2msEDCH, maxNrOfBits-HACE-PDU-non-scheduled, maxNrOfEDPCCCH-HARQ-PO-QUANTSTEPs, maxNrOfRefETFCI-PO-QUANTSTEPs, maxNrOfRefETFCIs, maxNrOfMeasNCell, maxNrOfMeanNCell-1, maxNrOfRecepsPerSyncFrame, maxNrOfSF, maxTGPS, maxNrOfUSCHs, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfDPCHs, maxNrOfDPCHLCRs, maxNrOfDPCHs768, maxNrOfCodes, maxNrOfDSCHs, maxNrOfDLTSs, maxNrOfDLTLSCRs, maxNrOfDFCHs, maxNrOfLevels, maxNoGPSItems, maxNoSat, maxNrOfCellPortionsPerCell, maxNrOfCellPortionsPerCell-1, maxNrOfHSSCHs, maxNrOfHSSCHCodes, maxNrOfMACdFlows, maxNrOfMACdFlows-1, maxNrOfMACdPDUIndexes, maxNrOfMACdPDUIndexes-1, maxNrOfMACdPDUSize, maxNrOfNIs, maxNrOfPriorityQueues, maxNrOfPriorityQueues-1, maxNrOfHARQProcesses, maxNrOfSyncDLCLCRs, maxNrOfSyncFramesLCR, maxNrOfSyncFramesOnUeList, maxNrOfSyncFramesOnUeList, maxNrOfSatAlmanac-maxNoSat, maxNrOfASCHs,
<table>
<thead>
<tr>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxNrOfEDCHMACdFlows</td>
</tr>
<tr>
<td>maxNrOfEDCHMACdFlows-1</td>
</tr>
<tr>
<td>maxNrOfRes-RSCHs-R-HICHs</td>
</tr>
<tr>
<td>maxNofSigSeqRGHI-1</td>
</tr>
<tr>
<td>maxNofLogicalChannels</td>
</tr>
<tr>
<td>maxNofEAGCHs</td>
</tr>
<tr>
<td>maxNofRefBetas</td>
</tr>
<tr>
<td>maxNofEAGCHCodes</td>
</tr>
<tr>
<td>maxNofHS-DSCH-TBSs</td>
</tr>
<tr>
<td>maxNofHS-DSCH-TBSs-HS-SCCHless</td>
</tr>
<tr>
<td>maxNofEHICHCodes</td>
</tr>
<tr>
<td>maxNofCommonMACFlows</td>
</tr>
<tr>
<td>maxNofCommonMACFlows-1</td>
</tr>
<tr>
<td>maxNofPagingMACFlow</td>
</tr>
<tr>
<td>maxNofPagingMACFlow-1</td>
</tr>
<tr>
<td>maxNofcommonMACQueues</td>
</tr>
<tr>
<td>maxNofpagingMACQueues</td>
</tr>
<tr>
<td>maxNofHS-DSCHTBSsS-P-CH</td>
</tr>
<tr>
<td>maxGANSSSat</td>
</tr>
<tr>
<td>maxNoGANSS</td>
</tr>
<tr>
<td>maxSgnType</td>
</tr>
<tr>
<td>maxHSDPAFrequency</td>
</tr>
<tr>
<td>maxHSDPAFrequency-1</td>
</tr>
<tr>
<td>maxGANSSSatAlmanac</td>
</tr>
<tr>
<td>maxGANSSClockMod</td>
</tr>
<tr>
<td>maxNofEDCHRls</td>
</tr>
<tr>
<td>maxCellinNodeB</td>
</tr>
<tr>
<td>maxERNTToRelease</td>
</tr>
<tr>
<td>maxNofCommonEDCH</td>
</tr>
<tr>
<td>maxFrequencyinCell-1</td>
</tr>
<tr>
<td>maxNofCommonMACFlowsLKR</td>
</tr>
<tr>
<td>maxNofCommonMACFlowsLKR-1</td>
</tr>
<tr>
<td>maxNofHSSCCCHsLKR</td>
</tr>
<tr>
<td>maxNofEDCHMACdFlowsLKR</td>
</tr>
<tr>
<td>maxNofEDCHMACdFlowsLKR-1</td>
</tr>
<tr>
<td>maxNofEAOCHaLKR</td>
</tr>
<tr>
<td>maxNofEHICHaLKR</td>
</tr>
<tr>
<td>maxnrofERUCHaLKR</td>
</tr>
<tr>
<td>maxNofHSPODSChs</td>
</tr>
<tr>
<td>maxFrequencyinCell</td>
</tr>
<tr>
<td>maxNofHSDSCH-1</td>
</tr>
<tr>
<td>maxNofHSDSCH</td>
</tr>
<tr>
<td>maxGANSS-1</td>
</tr>
<tr>
<td>maxNoOfTBSs-Mapping-HS-DSCH-SPS</td>
</tr>
<tr>
<td>maxNoOfTBSs-Mapping-HS-DSCH-SPS-1</td>
</tr>
<tr>
<td>maxNoOfHS-DSCH-TBSsLKR</td>
</tr>
<tr>
<td>maxNoOfRepetitionPeriod-LCR-1</td>
</tr>
<tr>
<td>maxNoOfRepetitionPeriod-SPS-LCR-1</td>
</tr>
<tr>
<td>maxNof-HS-SICH-SPS</td>
</tr>
<tr>
<td>maxNof-HS-SICH-SPS-1</td>
</tr>
<tr>
<td>maxNoOfNon-HS-SCCN-Associated-HS-SICH</td>
</tr>
<tr>
<td>maxNoOfNon-HS-SCCN-Associated-HS-SICH-Ext</td>
</tr>
<tr>
<td>maxMBMSServiceSelect</td>
</tr>
<tr>
<td>maxNrofCellPortionsPerCellLCR</td>
</tr>
</tbody>
</table>
maxNrOfCellPortionsPerCellLCR-1,
maxNrOfEDCH-1,
maxNoOfCommonH-RNTI,
maxNrOfCommonMACFlowsLCRExt,
maxOfERNTI,
maxNrOfDCHMeasurementOccasionPatternSequence,

id-BroadcastCommonTransportBearerIndication,
id-MessageStructure,
id-ReportCharacteristicsType-OnModification,
id-Rx-Timing-Delay-Value-LCR,
id-SFNSFNMeasurementValueInformation,
id-SFNSFNMeasurementThresholdInformation,
id-TUTRANGPSMeasurementValueInformation,
id-TUTRANGPSMeasurementThresholdInformation,
id-TypeOfError,
id-transportLayerAddress,
id-bindingID,
id-Angle-Of-Arrival-Value-LCR,
id-SyncDLCodeIdThreInfoLCR,
id-neighbouringTDDCellMeasurementInformationLCR,
id-HS-SICH-Reception-Quality,
id-HS-SICH-Reception-Quality-Measurement-Value,
id-Initial-DL-Power-TimeslotLCR-InformationItem,
id-Maximum-DL-Power-TimeslotLCR-InformationItem,
id-Minimum-DL-Power-TimeslotLCR-InformationItem,
id-Received-total-wide-band-power-For-CellPortion,
id-Transmitted-Carrier-Power-For-CellPortion,
id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission,
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-DSCH-HS-SCCH-E-AGCH-E-RGCHorE-HICHTransmissionCellPortion,
id-HS-DSCHRequiredPowerValueInformation,
id-HS-DSCHProvidedBitRateValueInformation,
id-HS-DSCHRequiredPowerValue,
id-HS-DSCHRequiredPowerValue-For-CellPortion,
id-HS-DSCHRequiredPowerValueInformation-For-CellPortion,
id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion,
id-HSDSCH-MACdPDUSizeFormat,
id-HS-FDSCH-Code-Change-Grant,
id-HS-FDSCH-Code-Change-Indicator,
id-HS-DSCH-SPS-Operation-Indicator,
id-Best-Cell-Portions-Value,
id-Unidirectional-DCH-Indicator,
id-SAT-Info-Almanac-ExtItem,
id-Tn1Qos,
id-UpPTSInterferenceValue,
id-HARQ-Preamble-Mode,
id-HARQ-Preamble-Mode-Activation-Indicator,
id-DLTransmissionBranchLoadValue,
id-B-DCHPProvidedBitRateValueInformation,
id-B-DCCH-Non-serving-Relative-Grant-Down-CommandsValue,
id-HSSICH-SIRTarget,
id-PLCCH-Information-UL-TimeslotLCR-Info,
id-neighbouringTDDCellMeasurmentInformation768,
id-Rx-Timing-Deviation-Value-768,
id-hsSCCH-Specific-Information-ResponseTDD768,
id-Rx-Timing-Deviation-Value-384-ext,
id-E-DCH-PowerOffset-for-SchedulingInfo,
id-Extended-Round-Trip-Time-Value,
id-ExtendedPropagationDelay,
id-HSSICH-TPC-StepSize,
id-RTWP-CellPortion-ReportingIndicator,
id-Received-Scheduled-EDCH-Power-Share-Value,
id-Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value,
id-Received-Scheduled-EDCH-Power-Share,
id-Received-Scheduled-EDCH-Power-Share-For-CellPortion,
id-ueCapability-Info,
id-ContinuousPacketConnectivityHS-SCCH-less-Information,
id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response,
id-MIMO-ActivationIndicator,
id-MIMO-Mode-Indicator,
id-MIMO-N-M-Ratio,
id-Additional-failed-HS-SICH,
id-Additional-missed-HS-SICH,
id-Additional-total-HS-SICH,
id-Additional-HS-SICH-Reception-Quality-Measurement-Value,
id-LCRTDD-uplink-Physical-Channel-Capability,
id-SixteenQAM-UL-Operation-Indicator,
id-E-AGCH-Table-Choice,
id-E-TPCI-Boost-Information,
id-E-DPDCH-PowerInterpolation,
id-MaximumMACdPDU-SizeExtended,
id-QANSS-Common-Data,
id-QANSS-Information,
id-QANSS-Generic-Data,
id-TUTRANQANSSMeasurementThresholdInformation,
id-TUTRANQANSSMeasurementValueInformation,
id-Extended-RNC-ID,
id-HARQ-MemoryPartitioningInfoExtForMIMO,
id-Ext-Reference-E-TPCI-PO,
id-Ext-Max-Bits-MACe-PDU-non-scheduled,
id-TransportBearerNotSetupIndicator,
id-TransportBearerNotRequestedIndicator,
id-UARFCNforWt,
id-number-OF-Supported-Carriers,
id-multipleFreq-HSPDSCH-InformationList-ResponseTDDLRCR,
id-tSN-Length,
id-multicarrier-number,
id-Extended-HS-SICH-ID,
id-Default-Serving-Grant-in-DTX-Cycle2,
id-SixtyfourQAM-UsageAllowedIndicator,
id-SixtyfourQAM-DL-UsageIndicator,
id-IPMulticastDataBearerIndication,
id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory,
id-ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator,
id-Extended-E-HICH-ID-TDD,
id-E-DCH-MACdPDUSizeFormat,
id-MaximumNumber-Of-Retransmission-for-Scheduling-Info-LCR\_TDD
, id-R-DCH-RetransmissionTimer-for-SchedulingInfo-LCR\_TDD
, id-R-PUCCH-PowerControlGAP
, id-HSDSCH-TBS\_SizeTableIndicator
, id-R-DCH-DL-Control-Channel-Change-Information
, id-R-DCH-DL-Control-Channel-Grant-Information
, id-DGANSS-Corrections-Req
, id-UE-with-enhanced-HS-SCH-support-indicator
, id-TransportBearerRequestIndicator
, id-EnhancedHSServingCC-Abort
, id-GANSS-Time-ID
, id-GANSS-AddIonosphereModelReq
, id-GANSS-EarthOrientParaReq
, id-GANSS-AddNavigationModelsReq
, id-GANSS-AddUTCModelsReq
, id-GANSS-AuxInfoReq
, id-GANSS-SBAS-\_ID
, id-GANSS-ID
, id-GANSS-Additional-Ionospheric-Model
, id-GANSS-Earth-Orientation-Parameters
, id-GANSS-Additional-Time-Models
, id-GANSS-Additional-Navigation-Models
, id-GANSS-Additional-UTC-Models
, id-GANSS-Auxillary-Information
, id-GANSS-alm-keplerianNAVAlmanac
, id-GANSS-alm-keplerianReducedAlmanac
, id-GANSS-alm-keplerianMid\_iAlmanac
, id-GANSS-alm-keplerianGLO\_NASS
, id-GANSS-alm-ecefSBASAlmanac
, id-EDCH-RACH-Report-Value
, id-EDCH-RACH-Report-IncrDecrThres
, id-EDCH-RACH-Report-ThresholdInformation
, id-MACe-Maximum-Bitrate-LCR
, id-E-AGCH-UE-Inactivity-Monitor-Threshold
, id-MultiCarrier-HSDSCH-Physical-Layer-Category
, id-MIMO-ReferenceSignal-InformationList\_LCR
, id-MIMO-SMode-\_For-HSPDSCHDualStream
, id-MIMO-SMode-Supported-\_For-HSPDSCHDualStream
, id-DL-RLC-PDU-\_Size-Format
, id-schedulingPriorityIndicator
, id-UE-SupportIndicatorExtension
, id-UE-AggregateMaximumBitrate-Enforcement-Indicator
, id-Single-Stream-MIMO-ActivationIndicator
, id-Single-Stream-MIMO-Mode-Indicator
, id-TransmittedCarrierPowerOfAllCodesNotUsedFor\_HS-\_PDSCH-HS-\_SCCH-E-AGCH\_\_orE-\_HICH\_\_TransmissionCellPortion
, id-ULTimeslotISCP-\_Value-\_For-\_CellPortion
, id-UpPTSInterferenceValue-\_For-\_CellPortion
, id-Best-Cell-Portions-ValueLCR
, id-Transmitted-Carrier-Power-\_For-\_CellPortion-ValueLCR
, id-Received-total-wide-band-power-\_For-\_CellPortion-ValueLCR
, id-TransmittedCarrierPowerOfAllCodesNotUsedFor\_HS-\_PDSCH-HS-\_SCCH-E-AGCH\_\_orE-\_HICH\_\_TransmissionCellPortionValue
, id-UL-TimeslotISCP-\_For-\_CellPortion-Value
, id-HS-\_DSCH\_RequiredPowerValueInformation-\_For-\_CellPortionLCR
id-HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR,
id-B-DCHProvidedBitRateValueInformation-For-CellPortion,
id-UpPTSInterference-For-CellPortion-Value,
id-HS-DSCH-SPS-Reservation-Indicator,
id-B-DCH-SPS-Reservation-Indicator,
id-MultipleFreq-HARQ-MemoryPartitioning-InformationList,
id-DiversityMode,
id-TransmitDiversityIndicator,
id-NonCellSpecificTxDiversity,
id-RepetitionPeriodIndex,
id-MidambleShiftLCR,
id-MaxHSDSCH-HSSCCH-Power-per-CELLPORTION,
id-Additional-EDCH-Preconfiguration-Information,
id-EDCH-Indicator,
id-U1-common-E-DCH-MACflow-Specific-InfoResponseListLCR-Ext,
id-E-RNTI-List-Request,
id-E-RNTI-List,
id-UL-Synchronisation-Parameters-For-PACHLCR,
id-UE-TS0-CapabilityLCR,
id-Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext,
id-Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-Ext,
id-DGNSS-ValidityPeriod,
id-AssociatedPhysicalChannelID,
id-PhysicalChannelID-for-CommonERNTI-RequestedIndicator,
id-Initial-DL-Transmission-Power,
id-Maximum-DL-Power,
id-Minimum-DL-Power,
id-Multicell-EDCH-InformationItemIES,
id-Multicell-EDCH-RL-Specific-InformationItemIES,
id-ContinuousPacketConnectivityDTX-DRX-Information,
id-Additional-E-DCH-Non-Serving-RL-Preconfiguration-Setup,
id-Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList,
id-U1-common-E-DCH-MACflow-Specific-InfoListLCR-Ext,
id-CommonMACFlowSpecific-InfoListResponseLCR-Ext,
id-Enabling-Delay-Ext-LCR,
id-HS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext

FROM NBAP-Constants

Criticality,
ProcedureID,
ProtocolIE-ID,
TransactionID,
TriggeringMessage

FROM NBAP-CommonDataTypes

NBAP-PROTOCOL-IIES,
ProtocolExtensionContainer{},
ProtocolIE-Single-Container{},
NBAP-PROTOCOL-EXTENSION

FROM NBAP-Containers;
AckNack-RepetitionFactor ::= INTEGER {1..4,...}
-- Step: 1

Ack-Power-Offset ::= INTEGER {0..8,...}
-- According to mapping in ref. [9] subclause 4.2.1

Acknowledged-PRACH-preambles-Value ::= INTEGER{0..240,...}
-- According to mapping in [22].

ActivationInformation ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF ActivationInformationItem

ActivationInformationItem ::= SEQUENCE {
  uU-ActivationState Uu-ActivationState,
  iE-Extensions ProtocolExtensionContainer { { ActivationInformationItem-ExtIEs} } OPTIONAL,
  ...
}

ActivationInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Adaptive-Special-Burst-Power-CapabilityLCR ::= ENUMERATED {
  adaptive-Special-Burst-Power-Capable,
  adaptive-Special-Burst-Power-Not-Capable
}

Additional-EDCH-Setup-Info ::=SEQUENCE{
  multicell-EDCH-Transport-Bearer-Mode Multicell-EDCH-Transport-Bearer-Mode,
  additional-EDCH-Cell-Information-Setup Additional-EDCH-Cell-Information-Setup,
  iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-Setup-Info-ExtIEs} } OPTIONAL,
  ...
}

Additional-EDCH-Setup-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Multicell-EDCH-Transport-Bearer-Mode ::= ENUMERATED {
  separate-Iub-Transport-Bearer-Mode,
  uL-Flow-Multiplexing-Mode
}

Additional-EDCH-Cell-Information-Setup ::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-FDD-Setup-Cell-Information

Additional-EDCH-FDD-Setup-Cell-Information ::=SEQUENCE{
  additional-EDCH-UL-DPCH-Information-Setup Additional-EDCH-UL-DPCH-Information-Setup,
  additional-EDCH-RL-Specific-Information-To-Setup Additional-EDCH-RL-Specific-Information-To-Setup-List,
  additional-EDCH-FDD-Information Additional-EDCH-FDD-Information OPTIONAL,
  additional-EDCH-P-DPCH-Information-Setup Additional-EDCH-P-DPCH-Information,
Additional-EDCH-FDD-Setup-Cell-Information-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

Additional-EDCH-UL-DPCH-Information-Setup ::=SEQUENCE{
  ul-ScramblingCode      UL-ScramblingCode,
  ul-SIR-Target       UL-SIR,
  iE-Extensions     ProtocolExtensionContainer { { Additional-EDCH-UL-DPCH-Information-Setup-ExtIEs} } OPTIONAL,
...
}

Additional-EDCH-UL-DPCH-Information-Setup-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Additional-EDCH-F-DPCH-Information ::=SEQUENCE{
  fdd-TPC-DownlinkStepSize   FDD-TPC-DownlinkStepSize,
  limitedPowerIncrease    LimitedPowerIncrease,
  innerLoopDLPCStatus     InnerLoopDLPCStatus,
  iE-Extensions     ProtocolExtensionContainer { { Additional-EDCH-F-DPCH-Information-ExtIEs} } OPTIONAL,
...
}

Additional-EDCH-F-DPCH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Additional-EDCH-RL-Specific-Information-To-Setup-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF Additional-EDCH-RL-Specific-Information-To-Setup-ItemIEs

Additional-EDCH-RL-Specific-Information-To-Setup-ItemIEs ::=SEQUENCE{
  eDCH-Additional-RL-ID    RL-ID,
  c-ID        C-ID          OPTIONAL,
  firstRLS-indicator     FirstRLS-Indicator,
  propagationDelay     PropagationDelay       OPTIONAL,
  dl-CodeInformation     FDD-DL-CodeInformation,
  initialDL-transmissionPower   DL-Power,
  maximumDL-power      DL-Power,
  minimumDL-power      DL-Power,
  f-DPCH-SlotFormat     F-DPCH-SlotFormat        OPTIONAL,
  e-RNTI        E-RNTI           OPTIONAL,
  multicell-EDCH-RL-Specific-Information Multicell-EDCH-RL-Specific-Information OPTIONAL,
  iE-Extensions     ProtocolExtensionContainer { { Additional-EDCH-RL-Specific-Information-To-Setup-ItemIEs-ExtIEs} } OPTIONAL,
...
}

Additional-EDCH-RL-Specific-Information-To-Setup-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
Additional-EDCH-Cell-Information-To-Add-List ::= SEQUENCE {SIZE (1..maxNrOfEDCH-1}) OF Additional-EDCH-Cell-Information-To-Add-ItemIEs

Additional-EDCH-Cell-Information-To-Add-ItemIEs ::= SEQUENCE{
  additional-EDCH-RL-Specific-Information-To-Add-ItemIEs Additional-EDCH-RL-Specific-Information-To-Add-ItemIEs,
  additional-EDCH-FDD-Information Additional-EDCH-FDD-Information OPTIONAL,
  multicell-EDCH-Information Multicell-EDCH-Information OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ Additional-EDCH-Cell-Information-To-Add-ItemIEs-ExtIEs} } OPTIONAL,
  ...
}

Additional-EDCH-Cell-Information-To-Add-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Additional-EDCH-RL-Specific-Information-To-Add-ItemIEs ::= SEQUENCE {SIZE (1..maxNrOfEDCHRLs}) OF EDCH-Additional-RL-Specific-Information-To-Add-List

EDCH-Additional-RL-Specific-Information-To-Add-List ::= SEQUENCE{
  eDCH-Additional-RL-ID RL-ID,
  c-ID C-ID,
  dl-CodeInformation FDD-DL-CodeInformation,
  initialDL-transmissionPower DL-Power OPTIONAL,
  maximumDL-power DL-Power OPTIONAL,
  minimumDL-power DL-Power OPTIONAL,
  f-DPCH-SlotFormat F-DPCH-SlotFormat OPTIONAL,
  multicell-EDCH-RL-Specific-Information Multicell-EDCH-RL-Specific-Information OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ EDCH-Additional-RL-Specific-Information-To-Add-List-ExtIEs} } OPTIONAL,
  ...
}

EDCH-Additional-RL-Specific-Information-To-Add-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Additional-EDCH-RL-Specific-Information-To-Modify-List ::= SEQUENCE {SIZE (1..maxNrOfEDCHRLs}) OF Additional-EDCH-RL-Specific-Information-To-Modify-ItemIEs

Additional-EDCH-RL-Specific-Information-To-Modify-ItemIEs ::= SEQUENCE{
  eDCH-Additional-RL-ID RL-ID,
  dl-CodeInformation FDD-DL-CodeInformation OPTIONAL,
  maximumDL-power DL-Power OPTIONAL,
  minimumDL-power DL-Power OPTIONAL,
  f-DPCH-SlotFormat F-DPCH-SlotFormat OPTIONAL,
  multicell-EDCH-RL-Specific-Information Multicell-EDCH-RL-Specific-Information OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {{ Additional-EDCH-RL-Specific-Information-To-Modify-ItemIEs-ExtIEs} } OPTIONAL,
  ...
}

Additional-EDCH-RL-Specific-Information-To-Modify-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
Additional-EDCH-FDD-Information ::= SEQUENCE{
  additional-EDCH-MAC-d-Flows-Specific-Information
  Additional-EDCH-MAC-d-Flows-Specific-Info-List
  OPTIONAL,
  hARQ-Process-Allocation-Scheduled-2ms-EDCH
  HARQ-Process-Allocation-2ms-EDCH
  OPTIONAL,
  e-DCH-Maximum-Bitrate
  E-DCH-Maximum-Bitrate
  OPTIONAL,
  e-DCH-Processing-Overload-Level
  E-DCH-Processing-Overload-Level
  OPTIONAL,
  e-DCH-Min-Set-E-TFCI
  E-TFCI
  OPTIONAL,
  iE-Extensions
  ProtocolExtensionContainer { { Additional-EDCH-FDD-Information-ExtIEs } } OPTIONAL,
  ...
}

Additional-EDCH-FDD-Information-ExtIEs
NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Additional-EDCH-MAC-d-Flows-Specific-Info-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows))
OF Additional-EDCH-MAC-d-Flows-Specific-Info

Additional-EDCH-MAC-d-Flows-Specific-Info ::= SEQUENCE {
  e-DCH-MACdFlow-ID
  E-DCH-MACdFlow-ID,
  bindingID
  BindingID
  OPTIONAL,
  transportLayerAddress
  TransportLayerAddress
  OPTIONAL,
  iE-Extensions
  ProtocolExtensionContainer { { Additional-EDCH-MAC-d-Flows-Specific-Info-ExtIEs } } OPTIONAL,
  ...
}

Additional-EDCH-MAC-d-Flows-Specific-Info-ExtIEs
NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Additional-EDCH-Cell-Information-Response-List
:= SEQUENCE (SIZE (1..maxNrOfEDCH-1))
OF Additional-EDCH-Cell-Information-Response-ItemIEs

Additional-EDCH-Cell-Information-Response-ItemIEs
:= SEQUENCE {
  eDCH-Additional-RL-Specific-Information-Response
  EDCH-Additional-RL-Specific-Information-Response-List
  OPTIONAL,
  additional-EDCH-MAC-d-Flow-Specific-Information-Response
  Additional-EDCH-MAC-d-Flow-Specific-Information-Response-List
  OPTIONAL,
  hARQ-Process-Allocation-Scheduled-2ms-EDCH
  HARQ-Process-Allocation-2ms-EDCH
  OPTIONAL,
  iE-Extensions
  ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-Response-ItemIEs-ExtIEs } } OPTIONAL,
  ...
}

Additional-EDCH-Cell-Information-Response-ItemIEs-ExtIEs
NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

EDCH-Additional-RL-Specific-Information-Response-List
:= SEQUENCE (SIZE (1..maxNrOfEDCHRLs))
OF EDCH-Additional-RL-Specific-Information-Response-ItemIEs

EDCH-Additional-RL-Specific-Information-Response-ItemIEs
:= SEQUENCE {
  eDCH-Additional-RL-ID
  RL-ID,
received-total-wide-band-power Received-total-wide-band-power-Value,  
DL-PowerBalancing-ActivationIndicator DL-PowerBalancing-ActivationIndicator OPTIONAL,  
RL-Set-ID RL-Set-ID,  
e-DCH-RL-Set-ID RL-Set-ID,  
e-DCH-FDD-DL-Control-Channel-Information E-DCH-FDD-DL-Control-Channel-Information,  
iE-Extensions ProtocolExtensionContainer { { EDCH-Additional-RL-Specific-Information-Response-ItemIEs-ExtIEs} } OPTIONAL,  
... 
EDCH-Additional-RL-Specific-Information-Response-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
...  
} 
Additional-EDCH-Cell-Information-Response-RLReconf-List::= SEQUENCE (SIZE (1..maxNrOfEDCH-1)) OF Additional-EDCH-FDD-Information-Response-RLReconf-Items  
Additional-EDCH-FDD-Information-Response-RLReconf-Items ::=SEQUENCE{  
additional-EDCH-FDD-Information-Response-ItemIEs Additional-EDCH-FDD-Information-Response-ItemIEs OPTIONAL,  
additional-Modified-EDCH-FDD-Information-Response-ItemIEs Additional-Modified-EDCH-FDD-Information-Response-ItemIEs OPTIONAL,  
iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-FDD-Information-Response-RLReconf-Items-ExtIEs} } OPTIONAL,  
...  
} 
Additional-EDCH-FDD-Information-Response-RLReconf-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
...  
} 
Additional-Modified-EDCH-FDD-Information-Response-ItemIEs ::=SEQUENCE{  
edCH-Additional-Modified-RL-Specific-Information-Response EDCH-Additional-Modified-RL-Specific-Information-Response-List OPTIONAL,  
additional-EDCH-MAC-d-Flow-Specific-Information-Response Additional-EDCH-MAC-d-Flow-Specific-Information-Response-List OPTIONAL,  
harQ-Process-Allocation-Scheduled-2ms-EDCH HARQ-Process-Allocation-2ms-EDCH OPTIONAL,  
iE-Extensions ProtocolExtensionContainer { { Additional-Modified-EDCH-FDD-Information-Response-ItemIEs-ExtIEs} } OPTIONAL,  
...  
} 
Additional-Modified-EDCH-FDD-Information-Response-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
...  
} 
EDCH-Additional-Modified-RL-Specific-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF EDCH-Additional-Modified-RL-Specific-Information-Response-List-Items  
EDCH-Additional-Modified-RL-Specific-Information-Response-List-Items ::=SEQUENCE{  
edCH-Additional-RL-ID RL-ID,  
DL-PowerBalancing-UpdatedIndicator DL-PowerBalancing-UpdatedIndicator OPTIONAL,  
e-DCH-FDD-DL-Control-Channel-Information E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,  
iE-Extensions ProtocolExtensionContainer { { EDCH-Additional-Modified-RL-Specific-Information-Response-List-Items-ExtIEs} } OPTIONAL,  
...  
} 
EDCH-Additional-Modified-RL-Specific-Information-Response-List-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
...  
}
ETSI Additional-Modified-RL-Specific-Information-Response-List-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Additional-EDCH-MAC-d-Flow-Specific-Information-Response-List ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF Additional-EDCH-MAC-d-Flows-Specific-Info-Response

Additional-EDCH-MAC-d-Flows-Specific-Info-Response ::= SEQUENCE {
  e-DCH-MACdFlow-ID E-DCH-MACdFlow-ID,
  bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-MAC-d-Flows-Specific-Info-Response-ExtIEs } } OPTIONAL,
  ...
}

Additional-EDCH-MAC-d-Flows-Specific-Info-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Additional-EDCH-Cell-Information-Response-RL-Add-List ::= SEQUENCE (SIZE (1..maxNrOfEDCH)) OF Additional-EDCH-Cell-Information-Response-RL-Add-ItemIEs

Additional-EDCH-Cell-Information-Response-RL-Add-ItemIEs ::= SEQUENCE {
  additional-EDCH-FDD-Information-Response Additional-EDCH-FDD-Information-Response-ItemIEs OPTIONAL,
  additional-EDCH-Serving-Cell-Change-Information-Response E-DCH-Serving-Cell-Change-Info-Response OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-Response-RL-Add-ItemIEs-ExtIEs } } OPTIONAL,
  ...
}

Additional-EDCH-Cell-Information-Response-RL-Add-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Additional-EDCH-ConfigurationChange-Info-ItemIEs ::= SEQUENCE {
  additional-EDCH-UL-DPCH-Information-Modify Additional-EDCH-UL-DPCH-Information-Modify-ItemIEs OPTIONAL,
  additional-EDCH-RL-Specific-Information-To-Add Additional-EDCH-RL-Specific-Information-To-Add-ItemIEs OPTIONAL,
  additional-EDCH-RP-DPCH-Information-Modify Additional-EDCH-RP-DPCH-Information-Modify-ItemIEs OPTIONAL,
  multicell-EDCH-Information Multicell-EDCH-Information OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Additional-EDCH-ConfigurationChange-Info-ItemIEs-ExtIEs } } OPTIONAL,
  ...
}

Additional-EDCH-ConfigurationChange-Info-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
Additional-EDCH-UL-DPCH-Information-Modify ::= SEQUENCE{
  ul-ScramblingCode  UL-ScramblingCode  OPTIONAL,
  ul-SIR-Target      UL-SIR     OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { { Additional-EDCH-UL-DPCH-Information-Modify-ExtIEs} } OPTIONAL,
  ... }

Additional-EDCH-UL-DPCH-Information-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

Additional-EDCH-Cell-Information-Removal-List ::= SEQUENCE {SIZE (1..maxNrOfEDCH-1)} OF Additional-EDCH-Cell-Information-Removal-Info-ItemIEs

Additional-EDCH-Cell-Information-Removal-Info-ItemIEs ::= SEQUENCE{
  rl-on-Secondary-UL-Frequency       RL-on-Secondary-UL-Frequency,
  iE-Extensions     ProtocolExtensionContainer { { Additional-EDCH-Cell-Information-Removal-Info-ItemIEs-ExtIEs} } OPTIONAL,
  ... }

Additional-EDCH-Cell-Information-Removal-Info-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

RL-on-Secondary-UL-Frequency ::= ENUMERATED {
  remove,
  ... }

Additional-EDCH-FDD-Update-Information ::= SEQUENCE{
  hARQ-Process-Allocation-Scheduled-2ms-EDCH      HARQ-Process-Allocation-2ms-EDCH
  OPTIONAL,
  additional-EDCH-DL-Control-Channel-Change-Information   Additional-EDCH-DL-Control-Channel-Change-Information-List
  OPTIONAL,
  iE-Extensions     ProtocolExtensionContainer { { Additional-EDCH-FDD-Update-Information-ExtIEs} } OPTIONAL,
  ... }

Additional-EDCH-FDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

Additional-EDCH-DL-Control-Channel-Change-Information-List ::= SEQUENCE {SIZE (1..maxNrOfEDCHRLs)} OF Additional-EDCH-DL-Control-Channel-Change-Info-ItemIEs

Additional-EDCH-DL-Control-Channel-Change-Info-ItemIEs ::= SEQUENCE{
  eDCH-Additional-RL-ID    RL-ID,
  iE-Extensions      ProtocolExtensionContainer { { Additional-EDCH-DL-Control-Channel-Change-Info-ItemIEs-ExtIEs} } OPTIONAL,
  ... }

Additional-EDCH-DL-Control-Channel-Change-Info-ItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }
AdditionalMeasurementValueList ::= SEQUENCE (SIZE (1..maxFrequencyinCell-1)) OF AdditionalMeasurementValue

AdditionalMeasurementValue ::= SEQUENCE {
  uARFCN         UARFCN,
  timeslotMeasurementValueListLCR   TimeSlotMeasurementValueListLCR,
  iE-Extensions       ProtocolExtensionContainer { {AdditionalMeasurementValueList-ExtIEs} } OPTIONAL,
  ... 
}

AdditionalMeasurementValueList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

AdditionalTimeSlotListLCR ::= SEQUENCE (SIZE (0..maxFrequencyinCell-1)) OF AdditionalTimeSlotLCR

AdditionalTimeSlotLCR ::= SEQUENCE {
  uARFCN         UARFCN,
  timeslot-InitiatedListLCR     TimeSlot-InitiatedListLCR  OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { {AdditionalTimeSlotLCR-ExtIEs} } OPTIONAL,
  ... 
}

AdditionalTimeSlotLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

AddorDeleteIndicator ::= ENUMERATED {
  add,
  delete
}

Active-Pattern-Sequence-Information ::= SEQUENCE {
  cMConfigurationChangeCFN        CFN,  transmission-Gap-Pattern-Sequence-Status Transmission-Gap-Pattern-Sequence-Status-List OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
  ... 
}

Active-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF SEQUENCE {
  tGPSID         TGPSID,
  tGPRC         TGPRC,
  ... 
}
Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

... 

}

AICH-Power ::= INTEGER {-22..5}
-- Offset in dB.

AICH-TransmissionTiming ::= ENUMERATED {
  v0,
  v1
}

AllocationRetentionPriority ::= SEQUENCE {
  priorityLevel    PriorityLevel,
  pre-emptionCapability Pre-emptionCapability,
  pre-emptionVulnerability Pre-emptionVulnerability,
  iE-Extensions    ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} } OPTIONAL,
  ...

}

AllocationRetentionPriority-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

... 

}

AlternativeFormatReportingIndicator ::= ENUMERATED {
  alternativeFormatAllowed,...
}

Angle-Of-Arrival-Value-LCR ::= SEQUENCE {
  aOA-LCR      AOA-LCR,
  aOA-LCR-Accuracy-Class  AOA-LCR-Accuracy-Class,
  iE-Extensions    ProtocolExtensionContainer { {Angle-Of-Arrival-Value-LCR-ExtIEs} } OPTIONAL,
  ...

}

Angle-Of-Arrival-Value-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

... 

}

AOA-LCR ::= INTEGER (0..719)
-- Angle Of Arrival for 1.28Mcps TDD

AOA-LCR-Accuracy-Class ::= ENUMERATED {a,b,c,d,e,f,g,h,...}

AvailabilityStatus ::= ENUMERATED {
  empty,
  in-test,
failed,
  power-off,
  off-line,
  off-duty,
  dependency,
  degraded,
  not-installed,
  log-full, ...

-- ================================
-- B
-- ================================

BCCH-Specific-HSDSCH-RNTI-Information ::= SEQUENCE {
  BCCH-Specific-HSDSCH-RNTI
    HSDSCH-RNTI,
  hSSCCH-Power
    DL-Power,
  hSPDSCH-Power
    DL-Power,
  iE-Extensions
    ProtocolExtensionContainer { { BCCH-Specific-HSDSCH-RNTI-Information-ExtIEs } } OPTIONAL,
  ...}

BCCH-Specific-HSDSCH-RNTI-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

BCCH-Specific-HSDSCH-RNTI-InformationLCR ::= SEQUENCE {
  BCCH-Specific-HSDSCH-RNTI
    HSDSCH-RNTI,
  hSSCCH-Power
    DL-Power,
  hSPDSCH-Power
    DL-Power,
  iE-Extensions
    ProtocolExtensionContainer { { BCCH-Specific-HSDSCH-RNTI-InformationLCR-ExtIEs } } OPTIONAL,
  ...}

BCCH-Specific-HSDSCH-RNTI-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

BCCH-ModificationTime ::= INTEGER (0..511)
  -- Time = BCCH-ModificationTime * 8
  -- Range 0 to 4096, step 8
  -- All SFN values in which MIB may be mapped are allowed

Best-Cell-Portions-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Best-Cell-Portions-Item

Best-Cell-Portions-Item ::= SEQUENCE {
  cellPortionID
    CellPortionID,
  sIRValue
    SIR-Value,
  iE-Extensions
    ProtocolExtensionContainer { { Best-Cell-Portions-Item-ExtIEs } } OPTIONAL,
...}

Best-Cell-Portions-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Best-Cell-Portions-ValueLCR ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF Best-Cell-Portions-ItemLCR

Best-Cell-Portions-ItemLCR ::= SEQUENCE {
cellPortionLCRID CellPortionLCRID,
rSCPValue RSCP-Value,
iE-Extensions ProtocolExtensionContainer { { Best-Cell-Portions-ItemLCR-ExtIEs} } OPTIONAL,
...
}

Best-Cell-Portions-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

BindingID ::= OCTET STRING (SIZE (1..4, ...
-- If the Binding ID includes a UDP port, the UDP port is included in octet 1 and 2. The first octet of
-- the UDP port field is included in the first octet of the Binding ID.

BetaCD ::= INTEGER (0..15)

BlockingPriorityIndicator ::= ENUMERATED {
  high,
  normal,
  low,
  ...
}
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.

SCTD-Indicator ::= ENUMERATED {
  active,
  inactive
}

BundlingModeIndicator ::= ENUMERATED {
  bundling,
  no-bundling
}

BroadcastCommonTransportBearerIndication ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
cid C-ID,
iE-Extensions ProtocolExtensionContainer { { BroadcastCommonTransportBearerIndication-ExtIEs} } OPTIONAL,
...
}

BroadcastCommonTransportBearerIndication-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
BroadcastReference ::= BIT STRING (SIZE (24))

Cause ::= CHOICE {
  radioNetwork    CauseRadioNetwork,
  transport      CauseTransport,
  protocol       CauseProtocol,
  misc           CauseMisc,
  ...
}

CauseMisc ::= ENUMERATED {
  control-processing-overload,
  hardware-failure,
  oam-intervention,
  not-enough-user-plane-processing-resources,
  unspecified,
  ...
}

CauseProtocol ::= ENUMERATED {
  transfer-syntax-error,
  abstract-syntax-error-reject,
  abstract-syntax-error-ignore-and-notify,
  message-not-compatible-with-receiver-state,
  semantic-error,
  unspecified,
  abstract-syntax-error-falsely-constructed-message,
  ...
}

CauseRadioNetwork ::= ENUMERATED {
  unknown-C-ID,
  cell-not-available,
  power-level-not-supported,
  dl-radio-resources-not-available,
  ul-radio-resources-not-available,
  rl-already-ActivatedOrAllocated,
  nodeB-Resources-unavailable,
  measurement-not-supported-for-the-object,
  combining-resources-not-available,
  requested-configuration-not-supported,
  synchronisation-failure,
  priority-transport-channel-established,
  sIB-Origination-in-Node-B-not-Supported,
  requested-tx-diversity-mode-not-supported,
  unspecified,
  bCCH-scheduling-error,
measurement-temporarily-not-available,
invalid-CM-settings,
reconfiguration-CFN-not-elapsed,
number-of-DL-codes-not-supported,
s-cpich-not-supported,
combining-not-supported,
ul-sf-not-supported,
dl-sf-not-supported,
common-transport-channel-type-not-supported,
dedicated-transport-channel-type-not-supported,
downlink-shared-channel-type-not-supported,
uplink-shared-channel-type-not-supported,
cm-not-supported,
tx-diversity-no-longer-supported,
unknown-Local-Cell-ID,
...
number-of-UL-codes-not-supported,
information-temporarily-not-available,
information-provision-not-supported-for-the-object,
cell-synchronisation-not-supported,
cell-synchronisation-adjustment-not-supported,
dpc-mode-change-not-supported,
iPDL-already-activated,
iPDL-not-supported,
iPDL-parameters-not-available,
frequency-acquisition-not-supported,
power-balancing-status-not-compatible,
requested-type-of-bearer-re-arrangement-not-supported,
signalling-Bearer-Re-arrangement-not-supported,
bearer-Re-arrangement-needed,
delayed-activation-not-supported,
rl-timing-adjustment-not-supported,
mich-not-supported,
f-DPCH-not-supported,
modification-period-not-available,
pLCHC-not-supported,
continuous-packet-connectivity-DTX-DRX-operation-not-available,
continuous-packet-connectivity-UE-DTX-Cycle-not-available,
mIMO-not-available,
e-DCH-MACdPDU-SizeFormat-not-available,
multi-Cell-operation-not-available,
semi-Persistent-scheduling-not-supported,
continuous-Packet-Connectivity-DRX-not-supported,
continuous-Packet-Connectivity-DRX-not-available,
sixtyfourQAM-DL-and-MIMO-Combined-not-available,
s-cpich-power-offset-not-available,
tx-diversity-for-mimo-on-DL-control-channels-not-available,
single-Stream-MIMO-not-available,
multi-Cell-operation-with-MIMO-not-available,
multi-Cell-operation-with-Single-Stream-MIMO-not-available,
cellSpecificTxDiversityHandlingForMultiCellOperationNotAvailable,
multi-Cell-EDCH-operation-not-available
ETSI

ETSI TS 125 433 V9.5.0 (2011-03)

1013

3GPP TS 25.433 version 9.5.0 Release 9

} CauseTransport ::= ENUMERATED {
  transport-resource-unavailable,
  unspecified,
  ...
}

CCTrCH-ID ::= INTEGER (0..15)

Cell-Capability-Container ::= BIT STRING (SIZE (128))
  -- First bit: Cell Specific Tx Diversity Handling For Multi Cell Operation Capability
  -- Second bit: Multi Cell and MIMO Capability
  -- Third bit: Multi Cell and Single Stream MIMO Capability
  -- Fourth bit: Multi Cell E-DCH Capability
  -- Fifth bit: Separate Iub Transport Bearer Capability
  -- Sixth bit: E-DCH UL Flow Multiplexing Capability
  -- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

Cell-ERNTI-Status-Information ::= SEQUENCE {SIZE (1..maxCellinNodeB)} OF Cell-ERNTI-Status-Information-Item

Cell-ERNTI-Status-Information-Item ::= SEQUENCE {
  c-ID C-ID,
  vacant-ERNTI Vacant-ERNTI,
  ...
}

Vacant-ERNTI ::= SEQUENCE {SIZE (1..maxERNTItoRelease)} OF E-RNTI

CellParameterID ::= INTEGER (0..127,...)

CellPortionID ::= INTEGER (0..maxNrOfCellPortionsPerCell-1,...)

CellPortionLCRID ::= INTEGER (0..maxNrOfCellPortionsPerCellLCR-1,...)

CellPortion-CapabilityLCR ::= ENUMERATED {
  cell-portion-capable,
  cell-portion-non-capable
}

CellSyncBurstCode ::= INTEGER(0..7, ...)

CellSyncBurstCodeShift ::= INTEGER(0..7)

CellSyncBurstRepetitionPeriod ::= INTEGER (0..4095)

CellSyncBurstSIR ::= INTEGER (0..31)

CellSyncBurstTiming ::= CHOICE {
  initialPhase INTEGER (0..1048575,...),
  steadyStatePhase INTEGER (0..255,...)
}

ETSI
CellSyncBurstTimingLCR ::= CHOICE {
  initialPhase INTEGER {0..524287,...},
  steadyStatePhase INTEGER {0..127,...}
}

CellSyncBurstTimingThreshold ::= INTEGER(0..254)

CFN ::= INTEGER (0..255)

ChipOffset ::= INTEGER (0..38399)
  -- Unit Chip

C-ID ::= INTEGER (0..65535)

Closedloopoptimizationadjustmentmode ::= ENUMERATED {
  adj-1-slot,
  adj-2-slot,
  ...
}

CodeRate ::= INTEGER (0..63)

CodeRate-short ::= INTEGER (0..10)

CommonChannelsCapacityConsumptionLaw ::= SEQUENCE {SIZE(1..maxNrOfSF)} OF
  SEQUENCE {
    dl-Cost INTEGER (0..65535),
    ul-Cost INTEGER (0..65535),
    iE-Extensions ProtocolExtensionContainer { { CommonChannelsCapacityConsumptionLaw-ExtIEs } } OPTIONAL,
    ...
  }

CommonChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Common-EDCH-Capability ::= ENUMERATED {
  common-EDCH-capable,
  common-EDCH-non-capable
}

Common-E-DCH-HSDPCCH-Capability ::= ENUMERATED {
  hSDPCCH-non-capable,
  ack-NACK-capable,
  ack-NACK-CQI-capable
}

Common-E-DCH-System-InformationFDD ::= SEQUENCE {
  common-E-DCH-UL-DPCH-Information Common-E-DCH-UL-DPCH-InfoItem OPTIONAL,
  common-E-DCH-EDPCH-Information Common-E-DCH-EDPCH-InfoItem OPTIONAL,
  common-E-DCH-Information Common-E-DCH-InfoItem OPTIONAL,
common-E-DCH-HSDPCCH-Information
    Common-E-DCH-HSDPCCH-InfoItem
    OPTIONAL,
common-E-DCH-Preamble-Control-Information
    Common-E-DCH-Preamble-Control-InfoItem
    OPTIONAL,
common-E-DCH-FDPCH-Information
    Common-E-DCH-FDPCH-InfoItem
    OPTIONAL,
common-E-DCH-E-AGCH-ChannelisationCodeNumber
    FDD-DL-ChannelisationCodeNumber
    OPTIONAL,
common-E-DCH-Resource-Combination-Information
    Common-E-DCH-Resource-Combination-InfoList
    OPTIONAL,
ul-common-E-DCH-MACflow-Specific-Information
    Ul-common-E-DCH-MACflow-Specific-InfoList
    OPTIONAL,
iE-Extensions
    ProtocolExtensionContainer { { Common-EDCH-System-InformationFDD-ExtIEs } } 
    OPTIONAL,
...
Common-EDCH-System-InformationFDD-ExtIEs
    NBAP-PROTOCOL-EXTENSION ::= {
        { ID id-E-RNTI-List-Request              CRITICALITY ignore         EXTENSION NULL          PRESENCE optional},
        ...
    }

Common-E-DCH-UL-DPCH-InfoItem ::= SEQUENCE {
    uL-SIR-Target      UL-SIR,
dPC-Mode       DPC-Mode
    OPTIONAL,
iE-Extensions    ProtocolExtensionContainer { { Common-E-DCH-UL-DPCH-InfoItem-ExtIEs} }
    OPTIONAL,
...
Common-E-DCH-UL-DPCH-InfoItem-ExtIEs
    NBAP-PROTOCOL-EXTENSION ::= {
        ...
    }

Common-E-DCH-EDPCH-InfoItem ::= SEQUENCE {
    maxSet-E-DPDCHs
    Max-Set-E-DPDCHs,
ul-PunctureLimit
    PunctureLimit,
e-TFCS-Information
    E-TFCS-Information,
e-TTI
    E-TTI,
e-DPCCH-PO
    E-DPCCH-PO,
e-RGCH-2-IndexStepThreshold
    E-RGCH-2-IndexStepThreshold
    OPTIONAL,
e-RGCH-3-IndexStepThreshold
    E-RGCH-3-IndexStepThreshold
    OPTIONAL,
hARQ-Info-for-E-DCH
    HARQ-Info-for-E-DCH,
iE-Extensions    ProtocolExtensionContainer { { Common-E-DCH-EDPCH-InfoItem-ExtIEs} }
    OPTIONAL,
...
Common-E-DCH-EDPCH-InfoItem-ExtIEs
    NBAP-PROTOCOL-EXTENSION ::= {
        ...
    }

Common-E-DCH-InfoItem ::= SEQUENCE { 
    e-DCH-Reference-Power-Offset
    E-DCH-Reference-Power-Offset
    OPTIONAL,
e-DCH-PowerOffset-for-SchedulingInfo
    E-DCH-PowerOffset-for-SchedulingInfo
    OPTIONAL,
max-ECH-Resource-Allocation-for-CCCH
    E-DCH-Resource-Allocation-for-CCCH,
max-Period-for-Collistion-Resolution
    Max-Period-for-Collistion-Resolution,
max-TB-Sizes
    Max-TB-Sizes
    OPTIONAL,
common-E-DCH-ImplicitRelease-Indicator
    BOOLEAN,
iE-Extensions ProtocolExtensionContainer { { Common-E-DCH-InfoItem-ExtIEs} } OPTIONAL,
...
}

Common-E-DCH-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Common-E-DCH-HSDPCCH-InfoItem ::= SEQUENCE {
  ackNackRepetitionFactor          AckNack-RepetitionFactor,
  ackPowerOffset                  Ack-Power-Offset,
  nackPowerOffset                 Nack-Power-Offset,
  common-E-DCH-CQI-Info           Common-E-DCH-CQI-Info OPTIONAL,
  iE-Extensions                   ProtocolExtensionContainer { { Common-E-DCH-HSDPCCH-InfoItem-ExtIEs} } OPTIONAL,
...
}

Common-E-DCH-HSDPCCH-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Common-E-DCH-CQI-Info ::= SEQUENCE {
  cqiFeedback-CycleK             CQI-Feedback-Cycle,
  cqiRepetitionFactor           CQI-RepetitionFactor OPTIONAL,
  -- This IE shall be present if the CQI Feedback Cycle k is greater than 0
  cqiPowerOffset                CQI-Power-Offset,
  measurement-Power-Offset      Measurement-Power-Offset,
  iE-Extensions                 ProtocolExtensionContainer { { Common-E-DCH-CQI-Info-ExtIEs} } OPTIONAL,
...
}

Common-E-DCH-CQI-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Common-E-DCH-Preamble-Control-InfoItem ::= SEQUENCE {
  commonPhysicalChannelID        CommonPhysicalChannelID,
  common-E-DCH-PreambleSignatures PreambleSignatures,
  scramblingCodeNumber           ScramblingCodeNumber,
  preambleThreshold              PreambleThreshold,
  e-AI-Indicator                 E-AI-Indicator OPTIONAL,
  common-E-DCH-AICH-Information  Common-E-DCH-AICH-Information OPTIONAL,
  iE-Extensions                  ProtocolExtensionContainer { { Common-E-DCH-Preamble-Control-InfoItem-ExtIEs} } OPTIONAL,
...
}

Common-E-DCH-Preamble-Control-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
Common-E-DCH-AICH-Information ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  aICH-TransmissionTiming AICH-TransmissionTiming,
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  aICH-Power AICH-Power,
  sTTD-Indicator STTD-Indicator,
  iE-Extensions ProtocolExtensionContainer {{ Common-E-DCH-AICH-Information-ExtIEs} } OPTIONAL,
}

Common-E-DCH-AICH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

Common-E-DCH-FDPCH-InfoItem ::= SEQUENCE {
  f-DPCH-SlotFormat F-DPCH-SlotFormat,
  fdd-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize,
  iE-Extensions ProtocolExtensionContainer {{ Common-E-DCH-FDPCH-InfoItem-ExtIEs} } OPTIONAL,
}

Common-E-DCH-FDPCH-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Initial-DL-Transmission-Power CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } |
  { ID id-Maximum-DL-Power CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } |
  { ID id-Minimum-DL-Power CRITICALITY ignore EXTENSION DL-Power PRESENCE optional } |
}

Common-E-DCH-Resource-Combination-InfoList ::= SEQUENCE (SIZE (1.. maxNrOfCommonEDCH)) OF Common-E-DCH-Resource-Combination-InfoList-Item

Common-E-DCH-Resource-Combination-InfoList-Item ::= SEQUENCE {
  soffset Soffset,
  f-DPCH-DL-Code-Number FDD-DL-ChannelisationCodeNumber,
  ul-DPCH-ScramblingCode UL-ScramblingCode,
  e-RGCH-E-HICH-Channelisation-Code FDD-DL-ChannelisationCodeNumber,
  e-RGCH-Signature-Sequence E-RGCH-Signature-Sequence
  OPTIONAL,
  e-HICH-Signature-Sequence E-HICH-Signature-Sequence,
  iE-Extensions ProtocolExtensionContainer {{ Common-E-DCH-Resource-Combination-InfoList-Item-ExtIEs} } OPTIONAL,
}

Common-E-DCH-Resource-Combination-InfoList-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

}
Ul-common-E-DCH-MACflow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF Ul-common-E-DCH-MACflow-Specific-InfoList-Item

Ul-common-E-DCH-MACflow-Specific-InfoList-Item ::= SEQUENCE {
    ul-Common-MACFlowID     Common-MACFlow-ID,
    transportBearerRequestIndicator TransportBearerRequestIndicator,
    bindingID               BindingID OPTIONAL,
    transportLayerAddress   TransportLayerAddress OPTIONAL,
    tnlQos                   TnlQos,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    bundlingModeIndicator    BundlingModeIndicator OPTIONAL,
    common-E-DCH-MACflow-Specific-Information Common-E-DCH-MACflow-Specific-InfoList,
    iE-Extensions            ProtocolExtensionContainer { { Ul-common-E-DCH-MACflow-Specific-InfoList-Item-ExtIEs} }
}

Ul-common-E-DCH-MACflow-Specific-InfoList-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...}

Common-E-DCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF Common-E-DCH-MACdFlow-Specific-InfoList-Item

Common-E-DCH-MACdFlow-Specific-InfoList-Item ::= SEQUENCE {
    common-e-DCH-MACdFlow-ID    E-DCH-MACdFlow-ID,
    maximum-Number-of-Retransmissions-For-E-DCH  Maximum-Number-of-Retransmissions-For-E-DCH,
    eDCH-HARQ-PO-FDD            E-DCH-HARQ-PO-FDD,
    eDCH-MACdFlow-Multiplexing-List E-DCH-MACdFlow-Multiplexing-List OPTIONAL,
    common-E-DCHLogicalChannelInformation Common-E-DCH-LogicalChannel-InfoList,
    iE-Extensions               ProtocolExtensionContainer { { Common-E-DCH-MACdFlow-Specific-InfoList-Item-ExtIEs} }
}

Common-E-DCH-MACdFlow-Specific-InfoList-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...}

Common-E-DCH-LogicalChannel-InfoList ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF Common-E-DCH-LogicalChannel-InfoList-Item

Common-E-DCH-LogicalChannel-InfoList-Item ::= SEQUENCE {
    logicalChannelId    LogicalChannelID,
    maximumMACcPDU-SizeExtended       MAC-PDU-SizeExtended,
    iE-Extensions               ProtocolExtensionContainer { { Common-E-DCH-LogicalChannel-InfoList-Item-ExtIEs} }
}

Common-E-DCH-LogicalChannel-InfoList-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...}

E T S I
Common-EDCH-System-Information-ResponseFDD ::= SEQUENCE {
  ul-common-E-DCH-MACflow-Specific-InfoResponse UI-common-E-DCH-MACflow-Specific-InfoResponseList,
  serving-Grant-Value E-Serving-Grant-Value,
  iE-Extensions ProtocolExtensionContainer { { Common-EDCH-System-Information-ResponseFDD-ExtIEs } }
  ...}

Common-EDCH-System-Information-ResponseFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-RNTI-List CRITICALITY ignore EXTENSION E-RNTI-List PRESENCE optional},
  ...}

E-RNTI-List ::= SEQUENCE (SIZE (1..maxofERNTI)) OF E-RNTI

Ul-common-E-DCH-MACflow-Specific-InfoResponseList ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF Ul-common-E-DCH-MACflow-Specific-InfoResponseList-Item

Ul-common-E-DCH-MACflow-Specific-InfoResponseList-Item ::= SEQUENCE {
  ul-Common-MACFlowID Common-MACFlow-ID,
  bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Ul-common-E-DCH-MACflow-Specific-InfoResponseList-Item-ExtIEs } } OPTIONAL,
  ...}

Ul-common-E-DCH-MACflow-Specific-InfoResponseList-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

Common-MACFlows-to-DeleteFDD ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF Common-MACFlows-to-DeleteFDD-Item

Common-MACFlows-to-DeleteFDD-Item ::= SEQUENCE {
  common-MACFlow-ID Common-MACFlow-ID,
  iE-Extensions ProtocolExtensionContainer { { Common-MACFlows-to-DeleteFDD-Item-ExtIEs } }
  ...}

Common-MACFlows-to-DeleteFDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

Common-MACFlow-ID ::= INTEGER (0..maxNrOfCommonMACFlows-1)

CommonMACFlow-Specific-InfoItem ::= SEQUENCE {
  common-MACFlow-ID Common-MACFlow-ID,
  bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  tnl-qos TnlQos OPTIONAL,
  common-MACFlow-PriorityQueue-Information Common-MACFlow-PriorityQueue-Information OPTIONAL,
  ...}

CommonMACFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF CommonMACFlow-Specific-InfoItem
iE-Extensions ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItem-ExtIEs } } OPTIONAL,
...

CommonMACFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-TransportBearerRequestIndicator CRITICALITY ignore EXTENSION TransportBearerRequestIndicator PRESENCE optional},
  -- This IE should not be contained if the MAC flow is setup in procedure, and it should be contained if the MAC flow is modified in procedure.
  ...
}

CommonMACFlow-Specific-InfoList-Response ::= SEQUENCE { SIZE (1..maxNrOfCommonMACFlows)} OF CommonMACFlow-Specific-InfoItem-Response

CommonMACFlow-Specific-InfoItem-Response ::= SEQUENCE {
  commonMACFlow-ID Common-MACFlow-ID,
  bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  hSDSCH-Initial-Capacity-Allocation HSDSCH-Initial-Capacity-Allocation OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItem-Response-ExtIEs } }
  OPTIONAL,
  ...
}

CommonMACFlow-Specific-InfoItem-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Common-MACFlow-PriorityQueue-Information ::= SEQUENCE { SIZE (1..maxNrOfcommonMACQueues)} OF Common-MACFlow-PriorityQueue-Item

Common-MACFlow-PriorityQueue-Item ::= SEQUENCE {
  priority-Queue-Information-for-Enhanced-FACH Priority-Queue-Information-for-Enhanced-FACH-PCH,
  iE-Extensions ProtocolExtensionContainer { { Common-MACFlow-PriorityQueue-Item-ExtIEs } }
  OPTIONAL,
  ...
}

Common-MACFlow-PriorityQueue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CommonMeasurementAccuracy ::= CHOICE {
  tUTRANGPSMeasurementAccuracyClass TUTRANGPSAccuracyClass,
  ...
  tUTRANGANSSMeasurementAccuracyClass TUTRANGANSSAccuracyClass
}

CommonMeasurementType ::= ENUMERATED {
  received-total-wide-band-power,
  transmitted-carrier-power,
  acknowledged-prach-preambles,
  ul-timeslot-iscp,

  ...

  ETSI
CommonMeasurementValue ::= CHOICE {
  transmitted-carrier-power       Transmitted-Carrier-Power-Value,
  received-total-wide-band-power      Received-total-wide-band-power-Value,
  acknowledged-prach-preambles      Acknowledged-PRACH-preambles-Value,
  uL-TimeslotISCP          UL-TimeslotISCP-Value,
  notUsed-1-acknowledged-PCPCH-access-preambles  NULL,
  notUsed-2-detected-PCPCH-access-preambles   NULL,
  ...,
  extension-CommonMeasurementValue  Extension-CommonMeasurementValue
}


Extension-CommonMeasurementValueIE NBAP-PROTOCOL-IES ::= {
  { ID id-TUTRANGPSMeasurementValueInformation CRITICALITY ignore TYPE TUTRANGPSMeasurementValueInformation mandatory   }|
  { ID id-SFNMeasurementValueInformation     CRITICALITY ignore TYPE SFNMeasurementValueInformation mandatory   }|
  { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission CRITICALITY ignore TYPE TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue mandatory   }|
  { ID id-HS-DSCHRequiredPowerValueInformation  CRITICALITY ignore TYPE HS-DSCHRequiredPowerValue mandatory   }|
  { ID id-HS-DSCHProvidedBitRateValueInformation CRITICALITY ignore TYPE HS-DSCHProvidedBitRateValue mandatory   }|
  { ID id-Transmitted-Carrier-Power-For-CellPortion-Value CRITICALITY ignore TYPE Transmitted-Carrier-Power-For-CellPortion-Value mandatory   }|

CommonMeasurementValueInformation ::= CHOICE {
  measurementAvailable  CommonMeasurementAvailable,
  measurementnotAvailable  CommonMeasurementnotAvailable
}
CommonMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}
CommonMeasurementnotAvailable ::= NULL
CommonPhysicalChannelID ::= INTEGER (0..255)
CommonPhysicalChannelID768 ::= INTEGER (0..511)
Common-PhysicalChannel-Status-Information ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer { { Common-PhysicalChannel-Status-Information-ExtIEs} } OPTIONAL,
  ...}
Common-PhysicalChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}
Common-PhysicalChannel-Status-Information768 ::= SEQUENCE {
  commonPhysicalChannelID768 CommonPhysicalChannelID768,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer { { Common-PhysicalChannel-Status-Information768-ExtIEs} } OPTIONAL,
  ...}
Common-PhysicalChannel-Status-Information768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}
CommonTransportChannelID ::= INTEGER (0..255)
CommonTransportChannel-InformationResponse ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { CommonTransportChannel-InformationResponse-ExtIEs} } OPTIONAL,
  ...}
CommonTransportChannel-InformationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-BroadcastCommonTransportBearerIndication CRITICALITY ignore EXTENSION BroadcastCommonTransportBearerIndication PRESENCE optional }
  { ID id-IMulticastDataBearerIndication CRITICALITY ignore EXTENSION IPMulticastDataBearerIndication PRESENCE optional },}
Common-TransportChannel-Status-Information ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer { { Common-TransportChannel-Status-Information-ExtIEs } } OPTIONAL,
} 

Common-TransportChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CommunicationControlPortID ::= INTEGER (0..65535)

Compressed-Mode-Deactivation-Flag ::= ENUMERATED {
  deactivate,
  maintain-Active
}

ConfigurationGenerationID ::= INTEGER (0..255)
  -- Value '0' means "No configuration"

ConstantValue ::= INTEGER (-10..10,...)
  -- -10 dB - +10 dB
  -- unit dB
  -- step 1 dB

ContinuousPacketConnectivityDTX-DRX-Capability ::= ENUMERATED {
  continuous-Packet-Connectivity-DTX-DRX-capable,
  continuous-Packet-Connectivity-DTX-DRX-non-capable
}

ContinuousPacketConnectivityDTX-DRX-Information ::= SEQUENCE {
  uE-DTX-DRX-Offset UE-DTX-DRX-Offset,
  enabling-Delay Enabling-Delay,
  dTX-Information DTX-Information,
  dRX-Information DRX-Information OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { ContinuousPacketConnectivityDTX-DRX-Information-ExtIEs } } OPTIONAL,
} 

ContinuousPacketConnectivityDTX-DRX-Information-to-Modify ::= SEQUENCE {
  uE-DTX-DRX-Offset UE-DTX-DRX-Offset OPTIONAL,
  enabling-Delay Enabling-Delay OPTIONAL,
  dTX-Information-to-Modify DTX-Information-to-Modify OPTIONAL,
}
ContinuousPacketConnectivityDTX-DRX-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...}

ContinuousPacketConnectivityHS-SCCH-less-Capability ::= ENUMERATED {
  continuous-Packet-Connectivity-HS-SCCH-less-capable,
  continuous-Packet-Connectivity-HS-SCCH-less-capable-non-capable
}

ContinuousPacketConnectivityHS-SCCH-less-Information ::= SEQUENCE (SIZE (1..maxNrOfHS-DSCH-TBSs-HS-SCCHless)) OF ContinuousPacketConnectivityHS-SCCH-less-InformationItem

ContinuousPacketConnectivityHS-SCCH-less-InformationItem ::= SEQUENCE {
  transport-Block-Size-Index    Transport-Block-Size-Index,
  hSPDSCH-Second-Code-Support    HSPDSCH-Second-Code-Support,
  iE-Extensions       ProtocolExtensionContainer { { ContinuousPacketConnectivityHS-SCCH-less-Information-ExtIEs } }

...}

ContinuousPacketConnectivityHS-SCCH-less-Information-Response ::= SEQUENCE {
  hSPDSCH-First-Code-Index    HSPDSCH-First-Code-Index,
  hSPDSCH-Second-Code-Index    HSPDSCH-Second-Code-Index  OPTIONAL,
  iE-Extensions       ProtocolExtensionContainer { { ContinuousPacketConnectivityHS-SCCH-less-Information-Response-ExtIEs } }

...}

ContinuousPacketConnectivityHS-SCCH-less-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...}

ControlGAP ::= INTEGER (1..255)

CPC-Information ::= SEQUENCE {
  continuousPacketConnectivityDTX-DRX-Information    ContinuousPacketConnectivityDTX-DRX-Information

...}

...
iE-Extensions ProtocolExtensionContainer { { CPC-Information-ExtIEs} } OPTIONAL,
...
}

CPC-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator CRITICALITY reject EXTENSION ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator PRESENCE optional },
  ...}

ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator ::= NULL

CQI-DTX-Timer ::= ENUMERATED { v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity }
-- Unit subframe

CQI-Feedback-Cycle ::= ENUMERATED { v0, v2, v4, v8, v10, v20, v40, v80, v160, ..., v16, v32, v64 }

CQI-Power-Offset ::= INTEGER (0..8, ...)
-- According to mapping in ref. [9] subclause 4.2.1

CQI-RepetitionFactor ::= INTEGER (1..4, ...)
-- Step: 1

CriticalityDiagnostics ::= SEQUENCE {
  procedureID ProcedureID OPTIONAL,
  triggeringMessage TriggeringMessage OPTIONAL,
  procedureCriticality Criticality OPTIONAL,
  transactionID TransactionID OPTIONAL,
  iEsCriticalityDiagnostics CriticalityDiagnostics-IE-List OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
  ...
}

CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE { SIZE (1..maxNrOfErrors) } OF SEQUENCE {
  iECriticality Criticality,
  iE-ID ProtocolIE-ID,
  repetitionNumber RepetitionNumber0 OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
  ...
}

CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MessageStructure CRITICALITY ignore EXTENSION MessageStructure PRESENCE optional },
  ...
}
CRNC-CommunicationContextID ::= INTEGER (0..1048575)

CSBMeasurementID ::= INTEGER (0..65535)

CSBTransmissionID ::= INTEGER (0..65535)

Common-EDCH-System-InformationLCR ::= SEQUENCE {
    ul-common-E-DCH-MACflow-Specific-InformationLCR  Ul-common-E-DCH-MACflow-Specific-InfoListLCR
    OPTIONAL,
    common-E-PUCH-InformationLCR  Common-E-PUCH-InformationLCR
    OPTIONAL,
    e-TFCS-Information-TDD  E-TFCS-Information-TDD
    OPTIONAL,
    maximum-Number-of-Retransmissions-For-SchedulingInfo  Maximum-Number-of-Retransmissions-For-E-DCH
    OPTIONAL,
    eDCH-Retransmission-Timer-SchedulingInfo  E-DCH-MACdFlow-Retransmission-Timer
    OPTIONAL,
    iE-Extensions  ProtocolExtensionContainer { { Common-EDCH-System-InformationLCR-ExtIEs } }
    OPTIONAL,
    ...}

Common-EDCH-System-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-Synchronisation-Parameters-For-PACHLCR  UL-Synchronisation-Parameters-LCR
      CRITICALITY reject  PRESENCE optional }|  
    { ID id-PhysicalChannelID-for-CommonERNTI-RequestedIndicator  PhysicalChannelID-for-CommonERNTI-RequestedIndicator
      CRITICALITY ignore  PRESENCE optional }|  
    { ID id-Ul-common-E-DCH-MACflow-Specific-InfoListLCR-Ext  Ul-common-E-DCH-MACflow-Specific-InfoListLCR-Ext
      CRITICALITY ignore  PRESENCE optional },
    ...
}

Common-E-PUCH-InformationLCR ::= SEQUENCE {
    minCR  CodeRate,
    maxCR  CodeRate,
    hargInfo  HARQ-Info-for-E-DCH,
    prXdes-base-perURAN  PRXdes-base-
     perURAFN  OPTIONAL,
    e-PUCH-TPC-StepSize  TDD-TPC-UplinkStepSize-LCR
     OPTIONAL,
    e-AUCH-TPC-StepSize  TDD-TPC-DownlinkStepSize
     OPTIONAL,
    e-PUCH-PowerControlGAP  TDD-TPC-DowlinkStepSize
     OPTIONAL,
    iE-Extensions  ProtocolExtensionContainer { { Common-E-PUCH-InformationLCR-ExtIEs } }
    OPTIONAL,
    ...}

Common-E-PUCH-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRXdes-base-perURAFN ::= SEQUENCE (SIZE (1.. maxFrequencyinCell)) OF PRXdes-base-Item

PRXdes-base-Item ::= SEQUENCE {
    prXdes-base  PRXdes-base,
    uARFCN  UARFCN
    OPTIONAL,
iE-Extensions  ProtocolExtensionContainer { { PRXdes-base-Item-ExtIEs} } OPTIONAL,

...  

PRXdes-base-Item-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

...  

}

Ul-common-E-DCH-MACflow-Specific-InfoListLCR ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF Ul-common-E-DCH-MACflow-Specific-InfoList-ItemLCR

Ul-common-E-DCH-MACflow-Specific-InfoListLCR-Ext ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlowsLCRExt)) OF Ul-common-E-DCH-MACflow-Specific-InfoList-ItemLCR-ExtIEs

Ul-common-E-DCH-MACflow-Specific-InfoList-ItemLCR ::= SEQUENCE {

ul-Common-MACFlowIDLCR  Common-MACFlow-ID-LCR,
transportBearerRequestIndicator  TransportBearerRequestIndicator OPTIONAL,
bindingID  BindingID OPTIONAL,
transportLayerAddress  TransportLayerAddress OPTIONAL,
tnlQos  TnlQos OPTIONAL,
payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator OPTIONAL,
common-E-DCH-MACdFlow-Specific-InformationLCR  Common-E-DCH-MACdFlow-Specific-InfoListLCR OPTIONAL,
uARFCN  UARFCN OPTIONAL,
iE-Extensions  ProtocolExtensionContainer { { Ul-common-E-DCH-MACflow-Specific-InfoList-ItemLCR-ExtIEs} } OPTIONAL,

...  

}

Ul-common-E-DCH-MACflow-Specific-InfoList-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...  

}

Common-E-DCH-MACdFlow-Specific-InfoListLCR ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlowsLCR)) OF Common-E-DCH-MACdFlow-Specific-InfoList-ItemLCR

Common-E-DCH-MACdFlow-Specific-InfoList-ItemLCR ::= SEQUENCE {

common-e-DCH-MACdFlow-ID  E-DCH-MACdFlow-ID-LCR,
maximum-Number-of-Retransmissions-For-E-DCH  Maximum-Number-of-Retransmissions-For-E-DCH OPTIONAL,
edCH-HARQ-PO-TDD  E-DCH-HARQ-PO-TDD OPTIONAL,
common-E-DCHLogicalChannelInformation  Common-E-DCH-LogicalChannel-InfoList OPTIONAL,
edCH-MACdFlow-Retransmission-Timer  E-DCH-MACdFlow-Retransmission-Timer OPTIONAL,
iE-Extensions  ProtocolExtensionContainer { { Common-E-DCH-MACdFlow-Specific-InfoList-ItemLCR-ExtIEs} } OPTIONAL,

...  

}

Common-E-DCH-MACdFlow-Specific-InfoList-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...  

}
Common-EDCH-System-Information-ResponseLCR ::= SEQUENCE {
  ul-common-E-DCH-MACflow-Specific-InfoResponseLCR        Ul-common-E-DCH-MACflow-Specific-InfoResponseListLCR OPTIONAL,  
  common-E-AGCH-ListLCR          Common-E-AGCH-ListLCR      OPTIONAL,  
  common-E-HICH-ListLCR          Common-E-HICH-ListLCR      OPTIONAL,  
  common-E-RNTI-Info-LCR          Common-E-RNTI-Info-LCR      OPTIONAL,  
  iE-Extensions          ProtocolExtensionContainer { { Common-EDCH-System-Information-ResponseLCR-ExtIEs} } OPTIONAL,  
  ...  
}

Common-EDCH-System-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Ul-common-E-DCH-MACflow-Specific-InfoResponseListLCR-Ext  CRITICALITY ignore  EXTENSION Ul-common-E-DCH-MACflow-Specific-InfoResponseListLCR-Ext  PRESENCE optional},  
  ...  
}

Ul-common-E-DCH-MACflow-Specific-InfoResponseListLCR ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF Ul-common-E-DCH-MACflow-Specific-InfoResponseList-ItemLCR

Ul-common-E-DCH-MACflow-Specific-InfoResponseList-ItemLCR ::= SEQUENCE {
  ul-Common-MACFlowID-LCR        Common-MACFlow-ID-LCR,  
  bindingID           BindingID          OPTIONAL,  
  transportLayerAddress        TransportLayerAddress       OPTIONAL,  
  uARFCN          UARFCN           OPTIONAL,  
  -- the IE is not used. 
  iE-Extensions          ProtocolExtensionContainer { { Ul-common-E-DCH-MACflow-Specific-InfoResponseList-ItemLCR-ExtIEs} } OPTIONAL,  
  ...  
}

Ul-common-E-DCH-MACflow-Specific-InfoResponseList-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...  
}

Common-E-AGCH-ListLCR ::= SEQUENCE (SIZE (1.. maxNrOfEAGCHsLCR)) OF Common-E-AGCH-ItemLCR

Common-E-AGCH-ItemLCR ::= SEQUENCE {
  e-AGCH-ID         E-AGCH-Id,  
  uARFCN          UARFCN           OPTIONAL,  
  -- the IE is not used. 
  iE-Extensions          ProtocolExtensionContainer { { Common-E-AGCH-ItemLCR-ExtIEs} } OPTIONAL,  
  ...  
}

Common-E-AGCH-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...  
}

Common-E-HICH-ListLCR ::= SEQUENCE (SIZE (1.. maxNrOfEHICHsLCR)) OF Common-E-HICH-ItemLCR

Common-E-HICH-ItemLCR ::= SEQUENCE {
  ...  
}
Common-E-HICH-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Common-E-RNTI-Info-LCR ::= SEQUENCE {SIZE {0..maxnrofERUCCHsLCR}} OF Common-E-RNTI-Info-ItemLCR

Common-E-RNTI-Info-ItemLCR ::= SEQUENCE {
    starting-E-RNTI E-RNTI,
    number-of-Group INTEGER{1..32},
    number-of-e-E-RNTI-perGroup INTEGER{1..7},
    iE-Extensions ProtocolExtensionContainer { { Common-E-RNTI-Info-ItemLCR-ExtIEs } } OPTIONAL,
    ...
}

Common-E-RNTI-Info-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-AssociatedPhysicalChannelID CRITICALITY reject EXTENSION CommonPhysicalChannelID PRESENCE optional},
    ...
}

Common-MACFlows-to-DeleteLCR ::= SEQUENCE {SIZE {0..maxNrOfCommonMACFlowsLCR}} OF Common-MACFlows-to-DeleteLCR-Item

Common-MACFlows-to-DeleteLCR-Item ::= SEQUENCE {
    common-MACFlow-ID-LCR Common-MACFlow-ID-LCR,
    iE-Extensions ProtocolExtensionContainer { { Common-MACFlows-to-DeleteLCR-Item-ExtIEs } } OPTIONAL,
    ...
}

Common-MACFlows-to-DeleteLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Common-MACFlow-ID-LCR ::= INTEGER {0..maxNrOfCommonMACFlowsLCR-1}

CommonMACFlow-Specific-InfoListLCR ::= SEQUENCE {SIZE {0..maxNrOfCommonMACFlowsLCR}} OF CommonMACFlow-Specific-InfoItemLCR

CommonMACFlow-Specific-InfoItemLCR ::= SEQUENCE {
    common-MACFlow-ID-LCR Common-MACFlow-ID-LCR,
    bindingID BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    tnl-qos TnlQos OPTIONAL,
    common-MACFlow-PriorityQueue-InformationLCR Common-MACFlow-PriorityQueue-Information OPTIONAL,
    transportBearerRequestIndicator TransportBearerRequestIndicator OPTIONAL,
    uARFCN UARFCN OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItemLCR-ExtIEs } } OPTIONAL,
    ...
}

ETS
CommonMACFlow-Specific-InfoItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...  
}

Common-H-RNTI-InformationLCR ::= SEQUENCE (SIZE (1.. maxNoOfCommonH-RNTI)) OF Common-H-RNTI-InfoItemLCR

Common-H-RNTI-InfoItemLCR ::= SEQUENCE {
  common-H-RNTI         HSDSCH-RNTI,
  iE-Extensions         ProtocolExtensionContainer { { Common-H-RNTI-InfoItemLCR-ExtIEs } }  OPTIONAL,
  ...
}

Common-H-RNTI-InfoItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...  
}

Sync-InformationLCR ::= SEQUENCE {
  t-SYNC                 T-SYNC,
  t-PROTECT              T-PROTECT,
  n-PROTECT              N-PROTECT,
  iE-Extensions          ProtocolExtensionContainer { { Sync-InformationLCR-ExtIEs } }  OPTIONAL,
  ...
}

Sync-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...  
}

CommonMACFlow-Specific-InfoList-ResponseLCR ::= SEQUENCE (SIZE (1..maxNrOfCommonMACFlows)) OF CommonMACFlow-Specific-InfoItem-ResponseLCR

CommonMACFlow-Specific-InfoList-ResponseLCR-Ext ::= SEQUENCE (SIZE (1.. maxNrOfCommonMACFlowsLCRExt)) OF CommonMACFlow-Specific-InfoItem-ResponseLCR

CommonMACFlow-Specific-InfoItem-ResponseLCR ::= SEQUENCE {
  common-MACFlow-ID-LCR        Common-MACFlow-ID-LCR,
  bindingID          BindingID         OPTIONAL,
  transportLayerAddress       TransportLayerAddress      OPTIONAL,
  hSDSCH-Initial-Capacity-Allocation    HSDSCH-Initial-Capacity-Allocation   OPTIONAL,
  iE-Extensions         ProtocolExtensionContainer { { CommonMACFlow-Specific-InfoItem-ResponseLCR-ExtIEs} }  OPTIONAL,
  ...
}

CommonMACFlow-Specific-InfoItem-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...  
}

CPC-InformationLCR ::= SEQUENCE {
  continuousPacketConnectivity-DRX-InformationLCR     ContinuousPacketConnectivity-DRX-InformationLCR
  OPTIONAL,
  continuousPacketConnectivity-DRX-Information-to-Modify-LCR     ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR
  OPTIONAL,
}

ETSI
hS-DSCH-Semi-PersistentScheduling-Information-LCR
null OPTIONAL,
hS-DSCH-Semi-PersistentScheduling-Information-to-Modify-LCR
null OPTIONAL,
hS-SCCH-DRX-CapabilityLCR ::= ENUMERATED {
continuous-Packet-Connectivity-DRX-Capable,
continuous-Packet-Connectivity-DRX-Non-Capable
}
ContinuousPacketConnectivity-DRX-InformationLCR ::= SEQUENCE {
  enabling-Delay        Enabling-Delay,
hS-SCCH-DRX-Information-LCR        HS-SCCH-DRX-Information-LCR,
e-AGCH-DRX-Information-LCR     E-AGCH-DRX-Information-LCR    OPTIONAL,
iE-Extensions        ProtocolExtensionContainer { { ContinuousPacketConnectivity-DRX-InformationLCR-ExtIEs } } OPTIONAL,
  ...
}
ContinuousPacketConnectivity-DRX-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-enabling-Delay-Ext-LCR  CRITICALITY ignore EXTENSION Enabling-Delay-Ext-LCR  PRESENCE optional },
  ...
}
HS-SCCH-DRX-Information-LCR ::= SEQUENCE {
  hs-SCCH-UE-DRX-Cycle-LCR         UE-DRX-Cycle-LCR,
  hs-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR Inactivity-Threshold-for-UE-DRX-Cycle-LCR OPTIONAL,
  hs-SCCH-UE-DRX-Offset-LCR         UE-DRX-Offset-LCR,
iE-Extensions        ProtocolExtensionContainer { { HS-SCCH-DRX-Information-LCR-ExtIEs } } OPTIONAL,
  ...
}
HS-SCCH-DRX-Information-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-hs-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext CRITICALITY ignore EXTENSION Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext PRSENCE optional },
  ...
}
E-AGCH-DRX-Information-LCR ::= CHOICE {

ETSI
ETSI TS 125 433 V9.5.0 (2011-03)

3GPP TS 25.433 version 9.5.0 Release 9

sameAsHS-SCCH NULL,
e-AGCH-DRX-Parameters E-AGCH-DRX-Parameters,
...

E-AGCH-DRX-Parameters ::= SEQUENCE {
e-AGCH-UB-DRX-Cycle-LCR UE-DRX-Cycle-LCR,
e-AGCH-UE-Inactivity-Monitor-Threshold E-AGCH-UE-Inactivity-Monitor-Threshold OPTIONAL,
e-AGCH-UE-DRX-Offset-LCR UE-DRX-Offset-LCR,
iE-Extensions ProtocolExtensionContainer {{ E-AGCH-DRX-Parameters-ExtIEs} } OPTIONAL,
...
}

E-AGCH-DRX-Parameters-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

UE-DRX-Cycle-LCR ::= ENUMERATED { v1, v2, v4, v8, v16, v32, v64,... }
-- Unit subframe

UE-DRX-Offset-LCR ::= INTEGER (0..63)
-- Unit subframe

Inactivity-Threshold-for-UE-DRX-Cycle-LCR ::= ENUMERATED { v1, v2, v4, v8, v16, v32, v64,... }
-- Unit subframe

Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext ::= ENUMERATED { v128, v256, v512,... }
-- Unit subframe

E-AGCH-UE-Inactivity-Monitor-Threshold ::= ENUMERATED { v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity,... }
-- Unit subframe

ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR ::= SEQUENCE {
enabling-Delay       Enabling-Delay       OPTIONAL,
      drX-Information-to-Modify-LCR    DRX-Information-to-Modify-LCR   OPTIONAL,
iE-Extensions        ProtocolExtensionContainer { { ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR-ExtIEs } } OPTIONAL,
...
}

ContinuousPacketConnectivity-DRX-Information-to-Modify-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-Enabling-Delay-Ext-LCR  CRITICALITY ignore EXTENSION Enabling-Delay-Ext-LCR  PRESENCE optional },
...
}

DRX-Information-to-Modify-LCR ::= CHOICE {
   modify   DRX-Information-to-Modify-Items-LCR,
deactivate NULL,
...
}

DRX-Information-to-Modify-Items-LCR ::= SEQUENCE {
hS-SCCH-DRX-Information-LCR HS-SCCH-DRX-Information-LCR OPTIONAL,
e-AGCH-DRX-Information-LCR E-AGCH-DRX-Information-LCR OPTIONAL,
...
iE-Extensions ProtocolExtensionContainer { {DRX-Information-to-Modify-Items-LCR-ExtIEs} } OPTIONAL,

...

DRX-Information-to-Modify-Items-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

}

ContinuousPacketConnectivity-DRX-Information-ResponseLCR ::= SEQUENCE {

enabling-Delay Enabling-Delay OPTIONAL,

hs-SCCH-DRX-Information-ResponseLCR HS-SCCH-DRX-Information-ResponseLCR OPTIONAL,

e-AGCH-DRX-Information-ResponseLCR E-AGCH-DRX-Information-ResponseLCR OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { ContinuousPacketConnectivity-DRX-Information-ResponseLCR-ExtIEs } } OPTIONAL,

...

}

ContinuousPacketConnectivity-DRX-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

{ ID id-Enabling-Delay-Ext-LCR CRITICALITY ignore EXTENSION Enabling-Delay-Ext-LCR PRESENCE optional },

...

}

hs-SCCH-DRX-Information-ResponseLCR ::= SEQUENCE {

hs-SCCH-UE-DRX-Cycle-LCR UE-DRX-Cycle-LCR OPTIONAL,

hs-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR Inactivity-Threshold-for-UE-DRX-Cycle-LCR OPTIONAL,

hs-SCCH-UE-DRX-Offset-LCR UE-DRX-Offset-LCR OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { HS-SCCH-DRX-Information-ResponseLCR-ExtIEs } } OPTIONAL,

...

}

HS-SCCH-DRX-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

{ ID id-HS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext CRITICALITY ignore EXTENSION Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext PRESENCE optional },

...

}

E-AGCH-DRX-Information-ResponseLCR ::= CHOICE {

sameAsHS-SCCH NULL,

e-AGCH-DRX-Parameters-Response E-AGCH-DRX-Parameters-Response,

...

}

E-AGCH-DRX-Parameters-Response ::= SEQUENCE {

e-AGCH-UE-DRX-Cycle-LCR UE-DRX-Cycle-LCR OPTIONAL,

e-AGCH-UE-Inactivity-Monitor-Threshold E-AGCH-UE-Inactivity-Monitor-Threshold OPTIONAL,

e-AGCH-UE-DRX-Offset-LCR UE-DRX-Offset-LCR OPTIONAL,

iE-Extensions ProtocolExtensionContainer { { E-AGCH-DRX-Parameters-Response-ExtIEs } } OPTIONAL,

...

}

E-AGCH-DRX-Parameters-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

}
-- ==========================================--
-- D
-- ==========================================--

DATA-ID ::= INTEGER (0..3)
DCH-ID ::= INTEGER (0..255)

DCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem

DCH-FDD-InformationItem ::= SEQUENCE {
payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
ul-FP-Mode       UL-FP-Mode,
toAWS        ToAWS,
toAWE        ToAWE,
dCH-SpecificInformationList   DCH-Specific-FDD-InformationList,
iE-Extensions      ProtocolExtensionContainer { { DCH-FDD-InformationItem-ExtIEs} } OPTIONAL,
...
}

DCH-FDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  { ID id-TnlQos      CRITICALITY ignore  EXTENSION TnlQos  PRESENCE optional },
...
}

DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item

DCH-Specific-FDD-Item ::= SEQUENCE {
dCH-ID        DCH-ID,
ul-TransportFormatSet    TransportFormatSet,
dl-TransportFormatSet    TransportFormatSet,
allocationRetentionPriority   AllocationRetentionPriority,
frameHandlingPriority    FrameHandlingPriority,
qE-Selector       QE-Selector,
iE-Extensions      ProtocolExtensionContainer { { DCH-Specific-FDD-Item-ExtIEs} } OPTIONAL,
...
}

DCH-Specific-FDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  { ID id-Unidirectional-DCH-Indicator CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator PRESENCE optional },
...
}

DCH-Indicator-For-E-DCH-HSDPA-Operation ::= ENUMERATED {
dch-not-present
}

DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem

DCH-InformationResponseItem ::= SEQUENCE {
dCH-ID          DCH-ID,
bindingID       BindingID OPTIONAL,
transportLayerAddress  TransportLayerAddress OPTIONAL,
iE-Extensions  ProtocolExtensionContainer { { DCH-InformationResponseItem-ExtIEs} } OPTIONAL,
...  
DCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-TransportBearerNotSetupIndicator CRITICALITY ignore EXTENSION TransportBearerNotSetupIndicator PRESENCE optional }, --
FDD only
...

DCH-MeasurementOccasion-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHMeasurementOccasionPatternSequence)) OF DchMeasurementOccasionInformation-Item

DchMeasurementOccasionInformation-Item ::= SEQUENCE {
  pattern-Sequence-Identifier Pattern-Sequence-Identifier,
  status-Flag Status-Flag,  
  measurement-Occasion-Pattern-Sequence-parameters Measurement-Occasion-Pattern-Sequence-parameters OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { DCH-MeasurementOccasion-Information-ExtIEs } }  OPTIONAL,
...  

DCH-MeasurementOccasion-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

Measurement-Occasion-Pattern-Sequence-parameters ::= SEQUENCE {
  measurement-Occasion-Pattern-Sequence-parameters-k INTEGER(1..9),
  measurement-Occasion-Pattern-Sequence-parameters-offset INTEGER(0..511),
  measurement-Occasion-Pattern-Sequence-parameters-M-Length INTEGER(1..512),
  measurement-Occasion-Pattern-Sequence-parameters-Timeslot-Bitmap BIT STRING (SIZE (7)),
iE-Extensions ProtocolExtensionContainer { { Measurement-Occasion-Pattern-Sequence-parameters-ExtIEs } } OPTIONAL,
...  

Measurement-Occasion-Pattern-Sequence-parameters-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

DCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem

DCH-TDD-InformationItem ::= SEQUENCE {
  payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,  
  ul-FP-Mode UL-FP-Mode,  
toAWS ToAWS,  
toAWE ToAWE,  
dCH-SpecificInformationList DCH-Specific-TDD-InformationList,  
iE-Extensions ProtocolExtensionContainer { { DCH-TDD-InformationItem-ExtIEs} } OPTIONAL,
...
DCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },
    ...
}

DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item

DCH-Specific-TDD-Item ::= SEQUENCE {
    dCH-ID DCH-ID,
    ul-CCTrCH-ID CCTrCH-ID,
    dl-CCTrCH-ID CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    allocationRetentionPriority AllocationRetentionPriority,
    frameHandlingPriority FrameHandlingPriority,
    qE-Selector QE-Selector OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { DCH-Specific-TDD-Item-ExtIEs} } OPTIONAL,
    ...
}

DCH-Specific-TDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Unidirectional-DCH-Indicator CRITICALITY reject EXTENSION Unidirectional-DCH-Indicator PRESENCE optional },
    ...
}

FDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifyItem

FDD-DCHs-to-ModifyItem ::= SEQUENCE {
    ul-FP-Mode UL-FP-Mode OPTIONAL,
    toAWS ToAWS OPTIONAL,
    toAWE ToAWE OPTIONAL,
    transportBearerRequestIndicator TransportBearerRequestIndicator,
    dCH-SpecificInformationList DCH-ModifySpecificInformation-FDD,
    iE-Extensions ProtocolExtensionContainer { { FDD-DCHs-to-ModifyItem-ExtIEs} } OPTIONAL,
    ...
}

FDD-DCHs-to-ModifyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TnlQos CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },
    ...
}

DCH-ModifySpecificInformation-FDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-FDD

DCH-ModifySpecificItem-FDD ::= SEQUENCE {
    dCH-ID DCH-ID,
    ul-TransportFormatSet TransportFormatSet OPTIONAL,
    dl-TransportFormatSet TransportFormatSet OPTIONAL,
    allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { DCH-ModifySpecificItem-FDD-ExtIEs} } OPTIONAL,
    ...
}
DCH-ModifySpecificItem-FDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-Unidirectional-DCH-Indicator         CRITICALITY reject         EXTENSION Unidirectional-DCH-Indicator         PRESENCE optional},
  ...
}

TDD-DCHs-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-TDD

DCH-ModifyItem-TDD ::= SEQUENCE {
  ul-FP-Mode          UL-FP-Mode          OPTIONAL,
  toAWS               ToAWS               OPTIONAL,
  toAWE               ToAWE               OPTIONAL,
  transportBearerRequestIndicator  TransportBearerRequestIndicator,
  dCH-SpecificInformationList  DCH-ModifySpecificInformation-TDD,
  iE-Extensions    ProtocolExtensionContainer { { TDD-DCHs-to-ModifyItem-ExtIEs} }   OPTIONAL,
  ...
}

TDD-DCHs-to-ModifyItem-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-TnlQos         CRITICALITY ignore         EXTENSION TnlQos         PRESENCE optional},
  ...
}

DCH-ModifySpecificInformation-TDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-TDD

DCH-ModifySpecificItem-TDD ::= SEQUENCE {
  dCH-ID               DCH-ID               OPTIONAL,
  ul-CCTrCH-ID         CCTrCH-ID         OPTIONAL,
  dl-CCTrCH-ID         CCTrCH-ID         OPTIONAL,
  ul-TransportFormatSet       TransportFormatSet       OPTIONAL,
  dl-TransportFormatSet       TransportFormatSet       OPTIONAL,
  allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
  frameHandlingPriority FrameHandlingPriority OPTIONAL,
  iE-Extensions    ProtocolExtensionContainer { { DCH-ModifySpecificItem-TDD-ExtIEs} }   OPTIONAL,
  ...
}

DCH-ModifySpecificItem-TDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
SEQUENCE {
  dl-Cost-1  INTEGER (0..65535),
  dl-Cost-2  INTEGER (0..65535),
  ul-Cost-1  INTEGER (0..65535),
  ul-Cost-2  INTEGER (0..65535),
  iE-Extensions    ProtocolExtensionContainer { { DedicatedChannelsCapacityConsumptionLaw-ExtIEs} }   OPTIONAL,
  ...
}

DedicatedChannelsCapacityConsumptionLaw-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
DedicatedMeasurementType ::= ENUMERATED {
  sir,
  sir-error,
  transmitted-code-power,
  rscp,
  rx-timing-deviation,
  round-trip-time,
  ...
  rx-timing-deviation-LCR,
  angle-Of-Arrival-LCR,
  hs-sich-quality,
  best-Cell-Portions,
  rx-timing-deviation-768,
  rx-timing-deviation-384-extended,
  best-Cell-PortionsLCR
}

DedicatedMeasurementValue ::= CHOICE {
  sIR-Value      SIR-Value,
  sIR-ErrorValue     SIR-Error-Value,
  transmittedCodePowerValue     Transmitted-Code-Power-Value,
  rSCP        RSCP-Value,
  rxTimingDeviationValue    Rx-Timing-Deviation-Value,
  roundTripTime      Round-Trip-Time-Value,
  ...
  extension-DedicatedMeasurementValue  Extension-DedicatedMeasurementValue
}

Extension-DedicatedMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-DedicatedMeasurementValueIE }}

Extension-DedicatedMeasurementValueIE NBAP-PROTOCOL-IES ::= {
  { ID id-Rx-Timing-Deviation-Value-LCR CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR   PRESENCE mandatory
  } |
  { ID id-Angle-Of-Arrival-Value-LCR   CRITICALITY reject TYPE Angle-Of-Arrival-Value-LCR    PRESENCE mandatory |
  } |
  { ID id-HS-SICH-Reception-Quality   CRITICALITY reject TYPE HS-SICH-Reception-Quality-Value     PRESENCE mandatory } |
  { ID id-Best-Cell-Portions-Value     CRITICALITY reject TYPE Best-Cell-Portions-Value      PRESENCE mandatory } |
  { ID id-Rx-Timing-Deviation-Value-768  CRITICALITY reject TYPE Rx-Timing-Deviation-Value-768    PRESENCE mandatory } |  { ID id-Rx-Timing-Deviation-Value-384-ext  CRITICALITY reject TYPE Rx-Timing-Deviation-Value-384-ext  PRESENCE mandatory } |
  { ID id-Extended-Round-Trip-Time-Value     CRITICALITY reject TYPE Extended-Round-Trip-Time-Value      PRESENCE mandatory } |
  { ID id-Best-Cell-Portions-ValueLCR     CRITICALITY reject TYPE Best-Cell-Portions-ValueLCR     PRESENCE mandatory },
  ...
}

DedicatedMeasurementValueInformation ::= CHOICE {
  measurementAvailable DedicatedMeasurementAvailable,
measurementnotAvailable DedicatedMeasurementnotAvailable

DedicatedMeasurementAvailable::= SEQUENCE {
  dedicatedmeasurementValue DedicatedMeasurementValue,
  cFN CFN OPTIONAL,
  ie-Extensions ProtocolExtensionContainer { { DedicatedMeasurementAvailableItem-ExtIEs} } OPTIONAL,
...
}

DedicatedMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DedicatedMeasurementnotAvailable ::= NULL

DelayedActivation ::= CHOICE {
  cfn CFN,
  separate-indication NULL
}

DelayedActivationUpdate ::= CHOICE {
  activate Activate-Info,
  deactivate Deactivate-Info
}

Activate-Info ::= SEQUENCE {
  activation-type Execution-Type,
  initial-dl-tx-power DL-Power,
  firstRLS-Indicator FirstRLS-Indicator OPTIONAL, --FDD Only
  propagation-delay PropagationDelay OPTIONAL, --FDD Only
  iE-Extensions ProtocolExtensionContainer { { Activate-Info-ExtIEs} } OPTIONAL,
...
}

Activate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-ExtendedPropagationDelay CRITICALITY reject EXTENSION ExtendedPropagationDelay PRESENCE mandatory }, --FDD Only
...
}

Deactivate-Info ::= SEQUENCE {
  deactivation-type Execution-Type,
  iE-Extensions ProtocolExtensionContainer { { Deactivate-Info-ExtIEs} } OPTIONAL,
...
}

Deactivate-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

Execution-Type ::= CHOICE {
  synchronised CFN,
  unsynchronised NULL
}

DeltaSIR ::= INTEGER (0..30)
-- Unit dB, Step 0.1 dB, Range 0..3 dB.

DGANSSCorrections ::= SEQUENCE {
  dGANSS-ReferenceTime INTEGER(0..119),
  dGANSS-Information    DGANSS-Information,
  ie-Extensions         ProtocolExtensionContainer { { DGANSSCorrections-ExtIEs } } OPTIONAL,
  ...                  }

DGANSSCorrections-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...                          }

DGANSS-Corrections-Req ::= SEQUENCE {
  dGANSS-Signal-ID     BIT STRING (SIZE (8)),
  ie-Extensions       ProtocolExtensionContainer { { DGANSS-Corrections-Req-ExtIEs } } OPTIONAL,
  ...                  }

DGANSS-Corrections-Req-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-GANSS-ID    CRITICALITY ignore EXTENSION GANSS-ID PRESENCE optional},
  ...                          }

DGANSS-Information ::= SEQUENCE (SIZE {1..maxSgnType}) OF DGANSS-InformationItem

DGANSS-InformationItem ::= SEQUENCE {
  gANSS-SignalId      GANSS-Signal-ID            OPTIONAL,
  gANSS-StatusHealth  GANSS-StatusHealth,
  dGANSS-SignalInformation    DGANSS-SignalInformation         OPTIONAL,
  ie-Extensions      ProtocolExtensionContainer { { DGANSS-InformationItem-ExtIEs } } OPTIONAL,
  ...                  }

DGANSS-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...                          }
DGANSS-SignalInformation ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF DGANSS-SignalInformationItem

DGANSS-SignalInformationItem ::= SEQUENCE {
    satId        INTEGER(0..63),
    gANSS-iod       BIT STRING (SIZE (10)),
    udre        UDRE,  
    ganss-prc       INTEGER(-2047..2047),
    ganss-rrc       INTEGER(-127..127),
    ie-Extensions      ProtocolExtensionContainer { { DGANSS-SignalInformationItem-ExtIEs } } OPTIONAL,
    ... 
}

DGANSS-SignalInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-DGNSS-ValidityPeriod CRITICALITY ignore EXTENSION DGNSS-ValidityPeriod PRESENCE optional},
    ... 
}

DGANSSThreshold ::= SEQUENCE {
    pRCDeviation      PRCDeviation,
    ie-Extensions      ProtocolExtensionContainer { { DGANSSThreshold-ExtIEs } } OPTIONAL,
    ... 
}

DGANSSThreshold-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ... 
}

DGNSS-ValidityPeriod ::= SEQUENCE {
    udreGrowthRate      UDREGrowthRate,
    udreValidityTime     UDREValidityTime,
    ie-Extensions      ProtocolExtensionContainer { { DGNSS-ValidityPeriod-ExtIEs } } OPTIONAL,
    ... 
}

DGNSS-ValidityPeriod-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ... 
}

DGPSCorrections ::= SEQUENCE {
    gpstow                GPSTOW,
    status-health         GPS-Status-Health,
    satelliteinfo         SAT-Info-DGPSCorrections,
    ie-Extensions      ProtocolExtensionContainer { { DGPSCorrections-ExtIEs} } OPTIONAL,
    ... 
}
DGPS Corrections-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
... 
}

DGPSThresholds ::= SEQUENCE {
  prcDeviation PRCDeviation,
  ie-Extensions ProtocolExtensionContainer { { DGPSThresholds-ExtIEs} } OPTIONAL,
... 
}

DGPSThresholds-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
... 
}


DiversityControlField ::= ENUMERATED {may, must, must-not, ...}

DiversityMode ::= ENUMERATED {none, sTTD, closed-loop-mode1, not-used-closed-loop-mode2, ...}

DL-DPCH-SlotFormat ::= INTEGER {0..16,...}

DL-DPCH-TimingAdjustment ::= ENUMERATED {timing-advance, timing-delay}

DL-Timeslot-Information ::= SEQUENCE {SIZE (1..maxNrOfDLTSs)} OF DL-Timeslot-InformationItem

DL-Timeslot-InformationItem ::= SEQUENCE {
  timeSlot TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tPCI-Presence TPCI-Presence,
  dL-Code-Information TDD-DL-Code-Information,
  ie-Extensions ProtocolExtensionContainer { { DL-Timeslot-InformationItem-ExtIEs} } OPTIONAL,
... 
}

DL-Timeslot-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
... 

ETSI
DL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-TimeslotLCR-InformationItem

DL-TimeslotLCR-InformationItem ::= SEQUENCE {
  timeSlotLCR        TimeSlotLCR,
  midambleShiftLCR    MidambleShiftLCR,
  tFCI-Presence       TFCI-Presence,
  dL-Code-LCR-Information  TDD-DL-Code-LCR-Information,
  iE-Extensions       ProtocolExtensionContainer { { DL-TimeslotLCR-InformationItem-ExtIEs} }  OPTIONAL,
  ...}

DL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

DL-FrameType ::= ENUMERATED {
  typeA,
  typeB,
  ...}

DL-Global-CapacityCredit ::= INTEGER (0..65535)

DL-Power ::= INTEGER (-350..150)
-- Value = DL-Power/10
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB

DLPowerAveragingWindowSize ::= INTEGER (1..60)

DL-PowerBalancing-Information ::= SEQUENCE {
  ...}
powerAdjustmentType  PowerAdjustmentType,

dLReferencePower     DL-Power     OPTIONAL,
   -- This IE shall be present if Power Adjustment Type IE equals to 'Common'

  dLReferencePowerList-DL-PC-Rqst  DL-ReferencePowerInformationList  OPTIONAL,
   -- This IE shall be present if Power Adjustment Type IE equals to 'Individual'

  maxAdjustmentStep     MaxAdjustmentStep  OPTIONAL,
   -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'

  adjustmentPeriod     AdjustmentPeriod  OPTIONAL,
   -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'

adjustmentRatio      ScaledAdjustmentRatio OPTIONAL,
   -- This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'

  iE-Extensions      ProtocolExtensionContainer { { DL-PowerBalancing-Information-ExtIEs } } OPTIONAL,
   ...

} DL-PowerBalancing-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   ...
}

DL-ReferencePowerInformationList ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF DL-ReferencePowerInformationItem

DL-ReferencePowerInformationItem ::= SEQUENCE {
   rL-ID      RL-ID,
   dl-Reference-Power     DL-Power,
   iE-Extensions      ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,
   ...
}

DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   ...
}

DL-PowerBalancing-ActivationIndicator ::= ENUMERATED {
   dl-PowerBalancing-Activated
}

DL-PowerBalancing-UpdatedIndicator ::= ENUMERATED {
   dl-PowerBalancing-Updated
}

DL-ScramblingCode ::= INTEGER (0..15)
   -- 0 = Primary scrambling code of the cell, 1..15 = Secondary scrambling code --

DL-TimeslotISCP ::= INTEGER (0..91)

DL-TimeslotISCPInfo ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-TimeslotISCPInfoItem

DL-TimeslotISCPInfoItem ::= SEQUENCE {
   timeSlot     TimeSlot,
   dl-TimeslotISCP     DL-TimeslotISCP,
   iE-Extensions      ProtocolExtensionContainer { {DL-TimeslotISCPInfoItem-ExtIEs} } OPTIONAL,
   ...
}
DL-TimeslotISCPInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

DL-TimeslotISCPInfoLCR ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-TimeslotISCPInfoItemLCR

DL-TimeslotISCPInfoItemLCR ::= SEQUENCE {
  timeSlotLCR     TimeSlotLCR,
  dL-TimeslotISCP    DL-TimeslotISCP,
  iE-Extensions    ProtocolExtensionContainer { {DL-TimeslotISCPInfoItemLCR-ExtIEs} }   OPTIONAL,
  ... 
}

DL-TimeslotISCPInfoItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

DL-TPC-Pattern01Count ::= INTEGER (0..30,...)

DLTransmissionBranchLoadValue ::= INTEGER (0..101,...)

Downlink-Compressed-Mode-Method ::= ENUMERATED {
  not-Used-puncturing,
  sFdiv2,
  higher-layer-scheduling,
  ... 
}

DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst

DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst::= SEQUENCE {
  timeSlot         TimeSlotLCR,
  midambleShiftAndBurstType     MidambleShiftLCR,
  dl-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst     DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst,
  maxHSDSCH-HSSCCH-Power      MaximumTransmissionPower     OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ... 
}

DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MaxHSDSCH-HSSCCH-Power-per-CELLPORTION      CRITICALITY ignore  EXTENSION MaxHSDSCH-HSSCCH-Power-per-CELLPORTION
    PRESENCE optional},
  ... 
}

MaxHSDSCH-HSSCCH-Power-per-CELLPORTION ::= SEQUENCE (SIZE (1..maxNrOfCell PortionsPerCellLCR)) OF MaxHSDSCH-HSSCCH-Power-per-CELLPORTION-Item

MaxHSDSCH-HSSCCH-Power-per-CELLPORTION-Item ::= SEQUENCE {
  cellPortionLCRID     CellPortionLCRID,
  maxHSDSCH-HSSCCH-Power      MaximumTransmissionPower,
  ... 
}
DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode

DPC-Mode ::= ENUMERATED {
    mode0,
    mode1,
    ...
}

DPCH-ID ::= INTEGER (0..239)

DPCH-ID768 ::= INTEGER (0..479)

DRX-Information ::= SEQUENCE {
    uE-DRX-Cycle          UE-DRX-Cycle,
    inactivity-Threshold-for-UE-DRX-Cycle Inactivity-Threshold-for-UE-DRX-Cycle,
    inactivity-Threshold-for-UE-Grant-Monitoring Inactivity-Threshold-for-UE-Grant-Monitoring,
    uE-DRX-Grant-Monitoring     UE-DRX-Grant-Monitoring,
    iE-Extensions         ProtocolExtensionContainer { {DRX-Information-ExtIEs} } OPTIONAL,
    ...
}

DRX-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DRX-Information-to-Modify ::= CHOICE {
    modify   DRX-Information-to-Modify-Items,
    deactivate  NULL,
    ...
}

DRX-Information-to-Modify-Items ::= SEQUENCE {
    uE-DRX-Cycle          UE-DRX-Cycle
    OPTIONAL,
    inactivity-Threshold-for-UE-DRX-Cycle Inactivity-Threshold-for-UE-DRX-Cycle
    OPTIONAL,
    inactivity-Threshold-for-UE-Grant-Monitoring Inactivity-Threshold-for-UE-Grant-Monitoring
    OPTIONAL,
    uE-DRX-Grant-Monitoring     UE-DRX-Grant-Monitoring
    OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { {DRX-Information-to-Modify-Items-ExtIEs} } OPTIONAL,
    ...
}

DRX-Information-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


DRX-Interruption-by-HS-DSCH ::= ENUMERATED {
    drx-Interruption-Configured,
    drx-Interruption-Not-Configured,
    ...
}

DSCH-ID ::= INTEGER (0..255)

DSCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationResponseItem

DSCH-InformationResponseItem ::= SEQUENCE {
    dsCH-ID           DSCH-ID,
    bindingID          BindingID     OPTIONAL,
    transportLayerAddress       TransportLayerAddress  OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-InformationResponseItem-ExtIEs } }  OPTIONAL,
    ...
}

DSCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-TDD-InformationItem

DSCH-TDD-InformationItem ::= SEQUENCE {
    dsCH-ID         DSCH-ID,
    cCTrCh-ID        CCTrCh-ID,
    transportFormatSet       TransportFormatSet,
    allocationRetentionPriority    AllocationRetentionPriority,
    frameHandlingPriority     FrameHandlingPriority,
    toAWS         ToAWS,
    toAWE         ToAWE,
    iE-Extensions       ProtocolExtensionContainer { { DSCH-TDD-InformationItem-ExtIEs} }   OPTIONAL,
    ...
}

DSCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID     CRITICALITY ignore  EXTENSION  BindingID    PRESENCE optional }|
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-transportlayeraddress  CRITICALITY ignore  EXTENSION  TransportLayerAddress PRESENCE optional }|
    -- Shall be ignored if bearer establishment with ALCAP.
    { ID id-TnlQos      CRITICALITY ignore  EXTENSION TnlQos     PRESENCE optional},
    ...
}

DsField ::= BIT STRING (SIZE (8))

DTX-Cycle-2ms-Items ::= SEQUENCE {
    uE-DTX-Cycle1-2ms    UE-DTX-Cycle1-2ms,
    uE-DTX-Cycle2-2ms    UE-DTX-Cycle2-2ms,
    mAC-DTX-Cycle-2ms    MAC-DTX-Cycle-2ms,
    iE-Extensions         ProtocolExtensionContainer { { DTX-Cycle-2ms-Items-ExtIEs} }   OPTIONAL,
...}

DTX-Cycle-2ms-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DTX-Cycle-2ms-to-Modify-Items ::= SEQUENCE {
  uE-DTX-Cycle1-2ms    UE-DTX-Cycle1-2ms,
  uE-DTX-Cycle2-2ms    UE-DTX-Cycle2-2ms,
  mAC-DTX-Cycle-2ms    MAC-DTX-Cycle-2ms,
  iE-Extensions        ProtocolExtensionContainer { { DTX-Cycle-2ms-to-Modify-Items-ExtIEs} } OPTIONAL,
  ...
}

DTX-Cycle-2ms-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DTX-Cycle-10ms-Items ::= SEQUENCE {
  uE-DTX-Cycle1-10ms    UE-DTX-Cycle1-10ms,
  uE-DTX-Cycle2-10ms    UE-DTX-Cycle2-10ms,
  mAC-DTX-Cycle-10ms    MAC-DTX-Cycle-10ms,
  iE-Extensions        ProtocolExtensionContainer { { DTX-Cycle-10ms-Items-ExtIEs} } OPTIONAL,
  ...
}

DTX-Cycle-10ms-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DTX-Cycle-10ms-to-Modify-Items ::= SEQUENCE {
  uE-DTX-Cycle1-10ms    UE-DTX-Cycle1-10ms,
  uE-DTX-Cycle2-10ms    UE-DTX-Cycle2-10ms,
  mAC-DTX-Cycle-10ms    MAC-DTX-Cycle-10ms,
  iE-Extensions        ProtocolExtensionContainer { { DTX-Cycle-10ms-to-Modify-Items-ExtIEs} } OPTIONAL,
  ...
}

DTX-Cycle-10ms-to-Modify-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DTX-Information ::= SEQUENCE {
  e-DCH-TTI-Length     E-DCH-TTI-Length,
  inactivity-Threshold-for-UE-DTX-Cycle2     Inactivity-Threshold-for-UE-DTX-Cycle2,
  uE-DTX-Long-Preamble     UE-DTX-Long-Preamble,
  mAC-Inactivity-Threshold    MAC-Inactivity-Threshold ,
  cQI-DTX-Timer     CQI-DTX-Timer,
  uE-DPCCH-burst1    UE-DPCCH-burst1,
  uE-DPCCH-burst2    UE-DPCCH-burst2,
  iE-Extensions        ProtocolExtensionContainer { { DTX-Information-ExtIEs} } OPTIONAL,
  ...
}

ETSI
DTX-Information-ExtIEs NBAP-Protocol-Extension ::= {
  ...
}

DTX-Information-to-Modify ::= CHOICE {
  modify   DTX-Information-to-Modify-Items,
  deactivate  NULL,
  ...
}

DTX-Information-to-Modify-Items ::= SEQUENCE {
  e-DCH-TTI-Length-to-Modify  E-DCH-TTI-Length-to-Modify   OPTIONAL,
  inactivity-Threshold-for-UE-DTX-Cycle2  Inactivity-Threshold-for-UE-DTX-Cycle2   OPTIONAL,
  uE-DTX-Long-Preamble  UE-DTX-Long-Preamble   OPTIONAL,
  MAC-Inactivity-Threshold  MAC-Inactivity-Threshold   OPTIONAL,
  cQI-DTX-Timer  CQI-DTX-Timer   OPTIONAL,
  uE-DPCCH-burst1  UE-DPCCH-burst1   OPTIONAL,
  uE-DPCCH-burst2  UE-DPCCH-burst2   OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer { {DTX-Information-to-Modify-Items-ExtIEs} } OPTIONAL,
  ...
}

DTX-Information-to-Modify-Items-ExtIEs NBAP-Protocol-Extension ::= {
  ...
}

Dual-Band-Capability ::= ENUMERATED {
  dual-Band-Capable,
  dual-Band-non-Capable
}

Dual-Band-Capability-Info ::= SEQUENCE {
  dual-Band-Capability  Dual-Band-Capability,
  possible-Secondary-Serving-Cell-List  Possible-Secondary-Serving-Cell-List   OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer { {Dual-Band-Capability-Info-ExtIEs} }   OPTIONAL,
  ...
}

Dual-Band-Capability-Info-ExtIEs NBAP-Protocol-Extension ::= {
  ...
}

DwPCH-Power ::= INTEGER (-150..400,...)
-- DwPCH-power = power * 10
-- If power <= -15 DwPCH shall be set to -150
-- If power > 40 DwPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB

-- E
E-AGCH-Table-Choice ::= ENUMERATED{table16B, table16B-1, ...}

E-AGCH-FDD-Code-Information ::= CHOICE {
  replace     E-AGCH-FDD-Code-List,
  remove     NULL,
  ...
}

E-AGCH-FDD-Code-List ::= SEQUENCE (SIZE (1..maxNrOfE-AGCHs)) OF FDD-DL-ChannelisationCodeNumber

E-AI-Capability ::= ENUMERATED {
  e-AI-capable,
  e-AI-non-capable
}

E-AI-Indicator ::= BOOLEAN

E-DCH-Capability ::= ENUMERATED {
  e-DCH-capable,
  e-DCH-non-capable
}

E-DCH-CapacityConsumptionLaw ::= SEQUENCE {
  e-DCH-SP-allocation     E-DCH-SP-allocation,
  dl-Cost-1   INTEGER (0..65535) OPTIONAL,
  dl-Cost-2   INTEGER (0..65535) OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { E-DCH-CapacityConsumptionLaw-ExtIEs } } OPTIONAL,
  ...
}

E-DCH-CapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-TDD-CapacityConsumptionLaw ::= SEQUENCE {
  ul-Cost     INTEGER (0..65535),
  dl-Cost     INTEGER (0..65535) OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { E-DCH-TDD-CapacityConsumptionLaw-ExtIEs } } OPTIONAL,
  ...
}

E-DCH-TDD-CapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-SP-allocation ::= SEQUENCE ( SIZE(1..maxNrOfCombEDPDCH) ) OF SEQUENCE {
  ul-Cost-1   INTEGER (0..65535),
  ul-Cost-2   INTEGER (0..65535),
  iE-Extensions ProtocolExtensionContainer { { E-DCH-SP-allocation-ExtIEs } } OPTIONAL,
  ...
}
ETSI TS 125 433 V9.5.0 (2011-03)

E-DCH-SF-allocation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-TTI2ms-Capability ::= BOOLEAN
-- True = TTI 10ms and 2ms supported for E-DCH False = only TTI 10ms supported for E-DCH

E-DCH-SF-Capability ::= ENUMERATED {
  sf64,
  sf32,
  sf16,
  sf8,
  sf4,
  sf4x2,
  sf2x2,
  sf4x2-and-sf2x2,
  ...
}

E-DCH-HARQ-Combining-Capability ::= ENUMERATED {
  iR-Combining-capable,
  chase-Combining-capable,
  iR-and-Chase-Combining-capable
}

E-DCH-DDI-Value ::= INTEGER (0..62)

E-DCH-FDD-DL-Control-Channel-Information ::= SEQUENCE {
  e-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code DL-ScramblingCode
    OPTIONAL,
  e-AGCH-Channelisation-Code FDD-DL-ChannelisationCodeNumber
    OPTIONAL,
  primary-e-RNTI E-RNTI
    OPTIONAL,
  secondary-e-RNTI E-RNTI
    OPTIONAL,
  e-RGCH-E-HICH-Channelisation-Code FDD-DL-ChannelisationCodeNumber
    OPTIONAL,
  e-RGCH-Signature-Sequence E-RGCH-Signature-Sequence
    OPTIONAL,
  e-HICH-Signature-Sequence E-HICH-Signature-Sequence
    OPTIONAL,
  serving-Grant-Value E-Serving-Grant-Value
    OPTIONAL,
  primary-Secondary-Grant-Selector E-Primary-Secondary-Grant-Selector
    OPTIONAL,
  e-RGCH-Release-Indicator E-RGCH-Release-Indicator
    OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { E-DCH-PDD-DL-Control-Channel-Information-ExtIEs} }
    OPTIONAL,
  ...
}
E-DCH-FDD-DL-Control-Channel-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Default-Serving-Grant-in-DTX-Cycle2 CRITICALITY ignore EXTENSION E-Serving-Grant-Value PRESENCE optional },
}

E-DCH-FDD-Information ::= SEQUENCE {
    e-DCH-MACdFlows-Information E-DCH-MACdFlows-Information,  
    hARQ-Process-Allocation-Scheduled-2ms-EDCH HARQ-Process-Allocation-2ms-EDCH OPTIONAL,  
    E-DCH-Maximum-Bitrate E-DCH-Maximum-Bitrate OPTIONAL,  
    E-DCH-Processing-Overload-Level E-DCH-Processing-Overload-Level OPTIONAL,  
    E-DCH-Reference-Power-Offset E-DCH-Reference-Power-Offset OPTIONAL,  
    iE-Extensions ProtocolExtensionContainer { { E-DCH-FDD-Information-ExtIEs} } OPTIONAL,  
}

E-DCH-FDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-E-DCH-PowerOffset-for-SchedulingInfo CRITICALITY ignore EXTENSION E-DCH-PowerOffset-for-SchedulingInfo PRESENCE optional},  
    { ID id-SixteenQAM-UL-Operation-Indicator CRITICALITY reject EXTENSION SixteenQAM-UL-Operation-Indicator PRESENCE optional},  
    { ID id-E-AGCH-Table-Choice CRITICALITY ignore EXTENSION E-AGCH-Table-Choice PRESENCE conditional},  
    -- The IE shall be present if the SixteenQAM UL Operation Indicator IE is set to 'Activate'--  
}

E-DCH-FDD-Information-Response ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-InformationResp E-DCH-MACdFlow-Specific-InformationResp OPTIONAL,  
    hARQ-Process-Allocation-Scheduled-2ms-EDCH HARQ-Process-Allocation-2ms-EDCH OPTIONAL,  
    iE-Extensions ProtocolExtensionContainer { { E-DCH-FDD-Information-Response-ExtIEs} } OPTIONAL,  
}

E-DCH-FDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
}

E-DCH-FDD-Information-to-Modify ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-Info-to-Modify E-DCH-MACdFlow-Specific-InfoList-to-Modify OPTIONAL,  
    hARQ-Process-Allocation-Scheduled-2ms-EDCH HARQ-Process-Allocation-2ms-EDCH OPTIONAL,  
    E-DCH-Maximum-Bitrate E-DCH-Maximum-Bitrate OPTIONAL,  
}
e-DCH-Processing-Overload-Level
  OPTIONAL,
e-DCH-Reference-Power-Offset
  OPTIONAL,
macEReset-Indicator
  OPTIONAL,
iE-Extensions
  OPTIONAL,
  ProtocolExtensionContainer { { E-DCH-FDD-Information-to-Modify-ExtIEs } }
...

E-DCH-FDD-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-E-DCH-PowerOffset-for-SchedulingInfo CRITICALITY ignore EXTENSION E-DCH-PowerOffset-for-SchedulingInfo
  PRESENCE optional]|} |
{ ID id-SixteenQAM-UL-Operation-Indicator CRITICALITY reject EXTENSION SixteenQAM-UL-Operation-Indicator
  PRESENCE optional}] |
{ ID id-E-DCH-MACdPDUSizeFormat CRITICALITY reject EXTENSION E-DCH-MACdPDUSizeFormat
  PRESENCE optional}] |
{ ID id-E-DCH-DL-Control-Channel-Grant-Information CRITICALITY ignore EXTENSION E-DCH-DL-Control-Channel-Grant-Information
  PRESENCE optional}] |
{ ID id-E-AGCH-Table-Choice CRITICALITY ignore EXTENSION E-AGCH-Table-Choice
  PRESENCE conditional}, -- The IE shall be present if the SixteenQAM UL Operation Indicator IE is set to 'Activate'--
...

E-DCH-FDD-Update-Information ::= SEQUENCE {
  e-DCH-MACdFlow-Specific-UpdateInformation E-DCH-MACdFlow-Specific-UpdateInformation
  OPTIONAL,
hARQ-Process-Allocation-Scheduled-2ms-EDCH HARQ-Process-Allocation-2ms-EDCH
  OPTIONAL,
iE-Extensions
  ProtocolExtensionContainer { { E-DCH-FDD-Update-Information-ExtIEs } }
  OPTIONAL,
...

E-DCH-FDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-E-DCH-DL-Control-Channel-Change-Information CRITICALITY ignore EXTENSION E-DCH-DL-Control-Channel-Change-Information
  PRESENCE optional},
...
}

E-DCH-MACdFlow-Specific-UpdateInformation ::= SEQUENCE { SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-UpdateInformation-Item

E-DCH-MACdFlow-Specific-UpdateInformation-Item ::= SEQUENCE {
  e-DCH-MACdFlow-ID E-DCH-MACdFlow-ID,
hARQ-Process-Allocation-NonSched-2ms-EDCH HARQ-Process-Allocation-2ms-EDCH
  OPTIONAL,
iE-Extensions
  ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-UpdateInformation-Item-ExtIEs } }
  OPTIONAL,
...
}
E-DCH-MACdFlow-Specific-UpdateInformation-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-DL-Control-Channel-Change-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF E-DCH-DL-Control-Channel-Change-Information-Item

E-DCH-DL-Control-Channel-Change-Information-Item ::= SEQUENCE {
  e-DCH-RL-ID       RL-ID,
  iE-Extensions     ProtocolExtensionContainer { { E-DCH-DL-Control-Channel-Change-Information-Item-ExtIEs} } OPTIONAL,
  ...
}

E-DCH-DL-Control-Channel-Change-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-DL-Control-Channel-Grant-Information ::= SEQUENCE (SIZE (1..maxNrOfEDCHRLs)) OF E-DCH-DL-Control-Channel-Grant-Information-Item

E-DCH-DL-Control-Channel-Grant-Information-Item ::= SEQUENCE {
  e-DCH-RL-ID       RL-ID,
  iE-Extensions     ProtocolExtensionContainer { { E-DCH-DL-Control-Channel-Grant-Information-Item-ExtIEs} } OPTIONAL,
  ...
}

E-DCH-DL-Control-Channel-Grant-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-Grant-Type-Information ::= CHOICE {
  e-DCH-Non-Scheduled-Transmission-Grant E-DCH-Non-Scheduled-Transmission-Grant-Items,
  e-DCH-Scheduled-Transmission-Grant NULL,
  ...
}

E-DCH-LogicalChannelInformation ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelInformationItem

E-DCH-LogicalChannelInformationItem ::= SEQUENCE {
  logicalChannelId   LogicalChannelID,
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  schedulingInformation  SchedulingInformation,
  mACesGuaranteedBitRate MACesGuaranteedBitRate OPTIONAL,
  mACD-PDU-Size-List   E-DCH-MACdPDU-SizeList,
  iE-Extensions        ProtocolExtensionContainer { { E-DCH-LogicalChannelInformationItem-ExtIEs} } OPTIONAL,
  ...
}

E-DCH-LogicalChannelInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MACdPDU-SizeExtended CRITICALITY reject EXTENSION MAC-PDU-SizeExtended PRESENCE optional}|
  { ID id-MACes-Maximum-Bitrate-LCR CRITICALITY ignore EXTENSION MACes-Maximum-Bitrate-LCR PRESENCE optional}|
  { ID id-UE-AggregateMaximumBitRate-Enforcement-Indicator CRITICALITY ignore EXTENSION UE-AggregateMaximumBitRate-Enforcement-Indicator PRESENCE optional},
  ...
}
E-DCH-Maximum-Bitrate ::= INTEGER (0..5742,...,5743..11498)
E-DCH-PowerOffset-for-SchedulingInfo ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPs)
E-DCH-Processing-Overload-Level ::= INTEGER (0..10,...)
E-DCH-Reference-Power-Offset ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPs)
E-DCH-MACdPDU-SizeList ::= SEQUENCE (SIZE (1.. maxNrOfMACdPDUSize)) OF E-DCH-MACdPDU-SizeListItem
E-DCH-MACdPDU-SizeListItem ::= SEQUENCE {
  mACdPDU-Size     MACdPDU-Size,
  iE-Extensions     ProtocolExtensionContainer { { E-DCH-MACdPDU-SizeListItem-ExtIEs } }   OPTIONAL,
  ...}
E-DCH-MACdPDU-SizeListItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}
E-DCH-MACdPDU-SizeCapability ::= ENUMERATED {
  fixedSizeCapable,
  flexibleSizeCapable
}
E-DCH-MACdPDUSizeFormat ::= ENUMERATED {
  fixedMACdPDU-Size,
  flexibleMACdPDU-Size
}
E-DCH-LogicalChannelToModify ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelToModifyItem
E-DCH-LogicalChannelToModifyItem ::= SEQUENCE {
  logicalChannelId          LogicalChannelID,
  schedulingPriorityIndicator    SchedulingPriorityIndicator OPTIONAL,
  schedulingInformation        SchedulingInformation OPTIONAL,
  mACesGuaranteedBitRate      MACesGuaranteedBitRate OPTIONAL,
  e-DCH-DDI-Value             E-DCH-DDI-Value OPTIONAL,
  mACd-PDU-Size-List          E-DCH-MACdPDU-SizeListToModifyList,
  iE-Extensions               ProtocolExtensionContainer { { E-DCH-LogicalChannelToModifyItem-ExtIEs } }   OPTIONAL,
  ...
}
E-DCH-LogicalChannelToModifyItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MaximumMACdPDU-SizeExtended  CRITICALITY reject  EXTENSION MAC-PDU-SizeExtended  PRESENCE optional}]
  { ID id-MACes-Maximum-Bitrate-LCR  CRITICALITY ignore  EXTENSION MACes-Maximum-Bitrate-LCR  PRESENCE optional}, --
  1.28Mcps TDD only
  ...
}
E-DCH-MACdPDU-SizeToModifyList ::= SEQUENCE (SIZE (0.. maxNrOfMACdPDUSize)) OF E-DCH-MACdPDU-SizeListItem
E-DCH-LogicalChannelToDelete ::= SEQUENCE (SIZE (1..maxNoOfLogicalChannels)) OF E-DCH-LogicalChannelToDeleteItem

E-DCH-LogicalChannelToDeleteItem ::= SEQUENCE {
    logicalChannelId    LogicalChannelID,
    iE-Extensions     ProtocolExtensionContainer { { E-DCH-LogicalChannelToDeleteItem-ExtIEs } } OPTIONAL,
    ...}

E-DCH-LogicalChannelToDeleteItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

LogicalChannelID ::= INTEGER (1..15)

E-DCH-HARQ-PO-FDD ::= INTEGER (0.. maxNrOfEDCH-HARQ-PO-QUANTSTEPS)

E-DCH-MACdFlow-ID ::= INTEGER (0..maxNrOfEDCHMACdFlows-1)

E-DCH-MACdFlows-Information ::= SEQUENCE {
    e-DCH-MACdFlow-Specific-Info E-DCH-MACdFlow-Specific-InfoList,
    iE-Extensions     ProtocolExtensionContainer { { E-DCH-MACdFlows-Information-ExtIEs} } OPTIONAL,
    ...
}

E-DCH-MACdFlows-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

E-DCH-MACdFlow-Multiplexing-List ::= BIT STRING ( SIZE(maxNrOfEDCHMAcFlows) )

E-DCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-InfoItem

E-DCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
    e-DCH-MACdFlow-ID E-DCH-MACdFlow-ID,
    allocationRetentionPriority AllocationRetentionPriority,
    tnlQos TnlQos
    OPTIONAL,
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    maximum-Number-of-Retransmissions-For-E-DCH Maximum-Number-of-Retransmissions-For-E-DCH,
    eDCH-HARQ-PO-FDD E-DCH-HARQ-PO-FDD,
    OPTIONAL,
    eDCH-Grant-Type-Information E-DCH-Grant-Type-Information,
    bundlingModeIndicator BundlingModeIndicator
    OPTIONAL,
    eDCHLogicalChannelInformation E-DCH-LogicalChannelInformation,
    iE-Extensions     ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InfoItem-ExtIEs} } }

ETS
E-DCH-MACdFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-TransportBearerNotRequestedIndicator CRITICALITY ignore EXTENSION TransportBearerNotRequestedIndicator PRESENCE optional }
}, ...
}

E-DCH-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-InformationResp-Item

E-DCH-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE {
  e-DCH-MACdFlow-ID E-DCH-MACdFlow-ID, bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  hARQ-Process-Allocation-NonSched-2ms-EDCH HARC-Process-Allocation-NonSched-2ms-EDCH OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InformationResp-Item-ExtIEs} } OPTIONAL,
  ...
}

E-DCH-MACdFlow-Specific-InformationResp-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-TransportBearerNotSetupIndicator CRITICALITY ignore EXTENSION TransportBearerNotSetupIndicator PRESENCE optional }, FDD only ...
}

E-DCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-Specific-InfoItem-to-Modify

E-DCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
  e-DCH-MACdFlow-ID E-DCH-MACdFlow-ID, allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
  transportBearerRequestIndicator TransportBearerRequestIndicator, TnlQos TnlQos OPTIONAL,
  maximum-Number-of-Retransmissions-For-E-DCH Maximum-Number-of-Retransmissions-For-E-DCH OPTIONAL,
  eDCH-HARQ-PO-FDD E-DCH-HARQ-PO-FDD OPTIONAL,
  eDCH-MACdFlow-Multiplexing-List E-DCH-MACdFlow-Multiplexing-List OPTIONAL,
  eDCH-Grant-Type-Information E-DCH-Grant-Type-Information OPTIONAL,
  bundlingModeIndicator BundlingModeIndicator OPTIONAL,
  eDCH-LogicalChannelToAdd E-DCH-LogicalChannelToAdd OPTIONAL,
  eDCH-LogicalChannelToModify E-DCH-LogicalChannelToModify OPTIONAL,
  eDCH-LogicalChannelToDelete E-DCH-LogicalChannelToDelete OPTIONAL,
}
iE-Extensions ProtocolExtensionContainer { { E-DCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs} } OPTIONAL,
...

E-DCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

E-DCH-MACdFlows-to-Delete ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-to-Delete-Item

E-DCH-MACdFlow-to-Delete-Item ::= SEQUENCE {
  e-DCH-MACdFlow-ID E-DCH-MACdFlow-ID,
iE-Extensions ProtocolExtensionContainer { { E-DCH-MACdFlow-to-Delete-Item-ExtIEs} } OPTIONAL,
...
}

E-DCH-MACdFlow-to-Delete-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

E-DCH-Non-Scheduled-Transmission-Grant-Items ::= SEQUENCE {
  -- The following IE shall be ignored if id-Ext-Max-Bits-MACe-PDU-non-scheduled is present in E-DCH-Non-Scheduled-Transmission-Grant-Items-ExtIEs
  maxBits-MACe-PDU-non-scheduled Max-Bits-MACe-PDU-non-scheduled,
  hARQ-Process-Allocation-NonSched-2ms HARQ-Process-Allocation-2ms-EDCH OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Transmission-Grant-Items-ExtIEs} } OPTIONAL,
...
}

E-DCH-Non-Scheduled-Transmission-Grant-Items-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  -- The following IE shall be present if the maximum number of bits to be signalled exceeds maxNrOfBits-MACe-PDU-non-scheduled
  { ID id-Ext-Max-Bits-MACe-PDU-non-scheduled CRITICALITY reject EXTENSION Ext-Max-Bits-MACe-PDU-non-scheduled PRESENCE optional},
...
}

E-DCH-Non-served-Relative-Grant-Down-Commands ::= INTEGER (0..100,...)

E-DCHProvidedBitRateValue ::= INTEGER{0..16777215,...,16777216..256000000} -- Unit bit/s, Range 0..2^24-1..2^24..256,000,000, Step 1 bit

Maximum-Target-ReceivedTotalWideBandPower ::= INTEGER (0..621) -- mapping as for RTWP measurement value, as specified in [22]

Target-NonServing-EDCH-To-Total-EDCH-Power-Ratio ::= INTEGER (0..100) -- Unit %, Range 0..100%, Step 1%

E-DCH-RL-Indication ::= ENUMERATED {
e-DCH, non-e-DCH
E-DCH-Serving-Cell-Change-Info-Response ::= SEQUENCE {
  e-DCH-serving-cell-choice          E-DCH-serving-cell-choice,
  iE-Extensions         ProtocolExtensionContainer { { E-DCH-serving-cell-informationResponse-ExtIEs} } OPTIONAL,
  ...}

E-DCH-serving-cell-informationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

E-DCH-serving-cell-choice ::= CHOICE {
  e-DCH-serving-cell-change-successful          E-DCH-serving-cell-change-successful,
  e-DCH-serving-cell-change-unsuccessful        E-DCH-serving-cell-change-unsuccessful,
  ...}

E-DCH-serving-cell-change-successful ::= SEQUENCE {
  e-DCH-RL-InformationList-Rsp   E-DCH-RL-InformationList-Rep,
  iE-Extensions         ProtocolExtensionContainer { { E-DCH-serving-cell-change-successful-ExtIEs} } OPTIONAL,
  ...}

E-DCH-RL-InformationList-Rsp ::= SEQUENCE SIZE (0..maxNrOfRLs) OF E-DCH-RL-InformationList-Rsp-Item

E-DCH-RL-InformationList-Rsp-Item ::= SEQUENCE {
  rl-ID        RL-ID,
  e-DCH-FDD-DL-Control-Channel-Info E-DCH-FDD-DL-Control-Channel-Information,
  iE-Extensions         ProtocolExtensionContainer { { E-DCH-RL-InformationList-Rsp-Item-ExtIEs} } OPTIONAL,
  ...}

E-DCH-serving-cell-change-successful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

E-DCH-RL-InformationList-Rsp-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

E-DCH-serving-cell-change-unsuccessful ::= SEQUENCE {
  cause       Cause,
  iE-Extensions         ProtocolExtensionContainer { { E-DCH-serving-cell-change-unsuccessful-ExtIEs} } OPTIONAL,
  ...}

E-DCH-serving-cell-change-unsuccessful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

-- The maximum repetitions should be limited to 1 so that this information is reported only once for a cell.
EDCH-RACH-Report-Value ::= SEQUENCE (SIZE(1.. maxNrOfCommonEDCH)) OF
SEQUENCE {
  granted-EDCH-RACH-resources  Granted-EDCH-RACH-Resources-Value,
  denied-EDCH-RACH-resources  Denied-EDCH-RACH-Resources-Value,
  iE-Extensions ProtocolExtensionContainer { { EDCH-RACH-Report-Value-ExtIEs } } OPTIONAL,
  ...
}

EDCH-RACH-Report-Value-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-TPCI-Table-Index ::= INTEGER {0..1,...,2..7}

E-DCH-TTI-Length ::= CHOICE {
  two-ms  DTX-Cycle-2ms-Items,
  ten-ms  DTX-Cycle-10ms-Items,
  ...
}

E-DCH-TTI-Length-to-Modify ::= CHOICE {
  two-ms  DTX-Cycle-2ms-to-Modify-Items,
  ten-ms  DTX-Cycle-10ms-to-Modify-Items,
  ...
}

E-DPCCH-PO ::= INTEGER {0..maxNrOfEDPCCH-PO-QUANTSTEPS}

E-DPDCH-PowerInterpolation ::= BOOLEAN

E-Primary-Secondary-Grant-Selector ::= ENUMERATED {
  primary,
  secondary
}

E-DCH-MACdFlow-ID-LCR ::= INTEGER {0..maxNrOfEDCHMACdFlowsLCR-1}

E-DCH-MACdFlows-to-DeleteLCR ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlowsLCR)) OF E-DCH-MACdFlow-to-Delete-ItemLCR

E-DCH-MACdFlow-to-Delete-ItemLCR ::= SEQUENCE {
  e-DCH-MACdFlow-ID-LCR E-DCH-MACdFlow-ID-LCR,
  iE-Extensions ProtocolExtensionContainer { { E-DCH-MACdFlow-to-Delete-ItemLCR-ExtIEs } } OPTIONAL,
  ...
}

E-DCH-MACdFlow-to-Delete-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Enhanced-UE-DRX-InformationLCR ::= SEQUENCE {
  t321 T321,
  hS-DSCH-DRX-Cycle-FACH HS-DSCH-DRX-Cycle-FACH,
  hS-DSCH-RX-Burst-FACH HS-DSCH-RX-Burst-FACH,
  ...
}
Enhanced-UE-DRX-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-HICH-ID-LCR ::= INTEGER(0..255)
E-HICH-Signature-Sequence ::= INTEGER (0..maxNrofSigSeqRGHI-1)
End-Of-Audit-Sequence-Indicator ::= ENUMERATED {
  end-of-audit-sequence,
  not-end-of-audit-sequence
}

E-Serving-Grant-Value ::= INTEGER (0..38)
E-RGCH-2-IndexStepThreshold ::= INTEGER (0..37)
E-RGCH-3-IndexStepThreshold ::= INTEGER (0..37)
E-RGCH-E-HICH-FDD-Code-Information ::= CHOICE {
  replace E-RGCH-E-HICH-FDD-Code-List,
  remove NULL,
  ...
}

E-RGCH-E-HICH-FDD-Code-List ::= SEQUENCE (SIZE (1..maxNrOfE-RGCHs-E-HICHs)) OF FDD-DL-ChannelisationCodeNumber

E-RGCH-Release-Indicator ::= ENUMERATED {e-RGCHreleased}
E-RGCH-Signature-Sequence ::= INTEGER (0..maxNrofSigSeqRGHI-1)
E-RNTI ::= INTEGER (0..65535)
E-TFCI ::= INTEGER (0..127)
E-TFCI-BetaEC-Boost ::= INTEGER (0..127,...)

E-TFCI-Boost-Information ::= SEQUENCE {
  e-TFCI-BetaEC-Boost,  
  uL-Delta-T2TP  OPTIONAL,
  -- This IE shall be present if the E-TFCI BetaEC Boost IE value is not set to 127.
  iE-Extensions ProtocolExtensionContainer { { E-TFCI-Boost-Information-ExtIEs} } OPTIONAL,
  ...
}

E-TFCI-Boost-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-TFCS-Information ::= SEQUENCE {


E-TFCI-Table-Index
E-DCH-TFCI-Table-Index,
e-DCH-Min-Set-E-TFCI
E-TFCI OPTIONAL,
reference-E-TFCI-Information
Reference-E-TFCI-Information,
iE-Extensions
ProtocolExtensionContainer { {E-TFCS-Information-ExtIEs} } OPTIONAL,
...
}

E-TFCS-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-E-TFCI-Boost-Information CRITICALITY reject EXTENSION E-TFCI-Boost-Information PRESENCE optional}|
{ ID id-E-DPDCH-PowerInterpolation CRITICALITY reject EXTENSION E-DPDCH-PowerInterpolation PRESENCE optional},
...
}

E-TTI ::= ENUMERATED {
  e-TTI-2ms,
  e-TTI-10ms
}

E-DCHProvidedBitRate ::= SEQUENCE (SIZE (1..maxNrOfPriorityClasses)) OF E-DCHProvidedBitRate-Item

E-DCHProvidedBitRate-Item ::= SEQUENCE {
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  e-DCHProvidedBitRateValue E-DCHProvidedBitRateValue,
  iE-Extensions ProtocolExtensionContainer { {E-DCHProvidedBitRate-Item-ExtIEs} } OPTIONAL,
...
}

E-DCHProvidedBitRate-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

E-DCHProvidedBitRateValueInformation-For-CellPortion ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF E-DCHProvidedBitRateValueInformation-For-CellPortion-Item

E-DCHProvidedBitRateValueInformation-For-CellPortion-Item ::= SEQUENCE{
  cellPortionLCRID CellPortionLCRID,
  e-DCHProvidedBitRateValue E-DCHProvidedBitRateValue,
  iE-Extensions ProtocolExtensionContainer { {E-DCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs} } OPTIONAL,
...
}

E-DCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

E-AGCH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB

E-RGCH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
E-HICH-PowerOffset ::= INTEGER (0..255,...)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB
E-HICH-TimeOffset ::= INTEGER (4..44)
E-HICH-TimeOffsetLCR ::= INTEGER (4..15)

E-DCH-Information ::= SEQUENCE {
  e-PUCH-Information          E-PUCH-Information,
  e-TFCS-Information-TDD       E-TFCS-Information-TDD,
  e-DCH-MACdFlows-Information-TDD E-DCH-MACdFlows-Information-TDD,
  e-DCH-Non-Scheduled-Grant-Info OPTIONAL,
  e-DCH-TDD-Information       E-DCH-TDD-Information,
  iE-Extensions               ProtocolExtensionContainer { { E-DCH-Information-ExtIEs} }  OPTIONAL,
  ...
}

E-DCH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-PUCH-Information ::= SEQUENCE {
  minCR          CodeRate,
  maxCR          CodeRate,
  harqInfo       HARQ-Info-for-E-DCH,
  n-E-UCCH       N-E-UCCH,
  iE-Extensions  ProtocolExtensionContainer { { E-PUCH-Information-ExtIEs } }  OPTIONAL,
  ...
}

E-PUCH-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-TFCS-Information-TDD ::= SEQUENCE {
  e-DCH-QPSK-RefBetaInfo       E-DCH-QPSK-RefBetaInfo,
  e-DCH-sixteenQAM-RefBetaInfo E-DCH-sixteenQAM-RefBetaInfo,
  iE-Extensions               ProtocolExtensionContainer { { E-TFCS-Information-TDD-ExtIEs } }  OPTIONAL,
  ...
}

E-TFCS-Information-TDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-QPSK-RefBetaInfo ::= SEQUENCE (SIZE (1..maxNrOfRefBetas)) OF E-DCH-RefBeta-Item
E-DCH-sixteenQAM-RefBetaInfo ::= SEQUENCE (SIZE (1..maxNrOfRefBetas)) OF E-DCH-RefBeta-Item
E-DCH-RefBeta-Item ::= SEQUENCE {
  refCodeRate    CodeRate-short,
E-DCH-MACdFlows-Information-TDD ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-MACdFlow-InfoTDDItem

E-DCH-MACdFlow-InfoTDDItem ::= SEQUENCE {
  e-DCH-MACdFlow-ID E-DCH-MACdFlow-ID,
  allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
  tnlQos TnlQos OPTIONAL,
  bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
  maximum-Number-of-Retransmissions-For-E-DCH Maximum-Number-of-Retransmissions-For-E-DCH,
  eDCH-HARQ-PO-TDD E-DCH-HARQ-PO-TDD,
  eDCH-MACdFlow-Multiplexing-List E-DCH-MACdFlow-Multiplexing-List OPTIONAL,
  eDCH-Grant-TypeTDD E-DCH-Grant-TypeTDD,
  eDCHLogicalChannelInformation E-DCH-LogicalChannelInformation,
  eDCH-MACdFlow-Retransmission-Timer E-DCH-MACdFlow-Retransmission-Timer OPTIONAL,
  -- Mandatory for LCR TDD, Not applicable for 3.84Mcps TDD and 7.68Mcps TDD
  iE-Extensions ProtocolExtensionContainer {{ E-DCH-MACdFlow-InfoTDDItem-ExtIEs} } OPTIONAL,
  ...
}

E-DCH-MACdFlow-InfoTDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-MACdFlow-Retransmission-Timer ::= ENUMERATED {
  ms10, ms15, ms20, ms25, ms30, ms35, ms40, ms45, ms50, ms55, ms60, ms65,
  ms70, ms75, ms80, ms85, ms90, ms95, ms100, ms110, ms120, ms140, ms160,
  ms200, ms240, ms280, ms320, ms400, ms480, ...
}

E-DCH-HARQ-PO-TDD ::= INTEGER (0..6)

E-DCH-Grant-TypeTDD ::= ENUMERATED {
  scheduled,
  non-scheduled
}

E-DCH-Non-Scheduled-Grant-Info ::= SEQUENCE {
  timeslotResource E-DCH-TimeslotResource,
  powerResource E-DCH-PowerResource,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  tdd-E-PUSCH-Offset TddE-PUSCH-Offset,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  iE-Extensions ProtocolExtensionContainer {{ E-DCH-Non-Scheduled-Grant-Info-ExtIEs} } OPTIONAL,
  ...
}

E-DCH-Non-Scheduled-Grant-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
E-DCH-TimeslotResource ::= BIT STRING (SIZE (13))
E-DCH-TimeslotResourceLCR ::= BIT STRING (SIZE (5))

E-DCH-PowerResource ::= INTEGER(1..32)

TddE-PUCH-Offset ::= INTEGER(0..255)

E-DCH-TDD-Information ::= SEQUENCE {
  e-DCH-TDD-Maximum-Bitrate E-DCH-TDD-Maximum-Bitrate OPTIONAL,
  e-DCH-Processing-Overload-Level E-DCH-Processing-Overload-Level OPTIONAL,
  e-DCH-PowerOffset-for-SchedulingInfo E-DCH-PowerOffset-for-SchedulingInfo OPTIONAL,
  iE-Extensions ProtocolExtensionContainer ( { E-DCH-TDD-Information-ExtIEs } ) OPTIONAL,
  ...
}

E-DCH-TDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-TDD-Maximum-Bitrate ::= INTEGER (0..9201,...)

E-DCH-Information-Response ::= SEQUENCE {
  e-DCH-TDD-MACdFlow-Specific-InformationResp E-DCH-TDD-MACdFlow-Specific-InformationResp OPTIONAL,
  e-AGCH-Specific-Information-ResponseTDD E-AGCH-Specific-InformationRespListTDD OPTIONAL,
  e-RNTI E-RNTI,
  scheduled-E-HICH-Specific-Information-ResponseLCRTDD Scheduled-E-HICH-Specific-Information-ResponseLCRTDD OPTIONAL, -- 1.28Mcps TDD only
  iE-Extensions ProtocolExtensionContainer ( { E-DCH-Information-Response-ExtIEs } ) OPTIONAL,
  ...
}

E-DCH-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Scheduled-E-HICH-Specific-Information-ResponseLCRTDD ::= SEQUENCE (SIZE (1..maxNrOfEHICHCodes)) OF Scheduled-E-HICH-Specific-InformationItem-ResponseLCRTDD

Scheduled-E-HICH-Specific-InformationItem-ResponseLCRTDD ::= SEQUENCE {
  eI EI,
  e-HICH-ID-TDD E-HICH-ID-TDD,
  iE-Extensions ProtocolExtensionContainer ( { Scheduled-E-HICH-Specific-InformationItem-ResponseLCRTDD-ExtIEs } ) OPTIONAL,
  ...
}

Scheduled-E-HICH-Specific-InformationItem-ResponseLCRTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Extended-E-HICH-ID-TDD CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional},
  -- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
  ...
}
EI ::= INTEGER (0..3)

E-HICH-ID-TDD ::= INTEGER (0..31)

E-HICH-Type ::= ENUMERATED {scheduled,non-scheduled}

E-DCH-TDD-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfEDCHMACdFlows)) OF E-DCH-TDD-MACdFlow-Specific-InformationResp-Item

E-DCH-TDD-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE {
  e-DCH-MacFlow-Id           E-DCH-MACdFlow-ID,
  bindingID                  BindingID     OPTIONAL,
  transportLayerAddress      TransportLayerAddress  OPTIONAL,
  iE-Extensions              ProtocolExtensionContainer { { E-DCH-TDD-MACdFlow-Specific-InformationRespItem-ExtIEs } } OPTIONAL,
  ...}

E-DCH-TDD-MACdFlow-Specific-InformationRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

E-AGCH-Specific-InformationRespListTDD ::= SEQUENCE (SIZE (1..maxNrOfEAGCHCodes)) OF E-AGCH-Specific-InformationResp-ItemTDD

E-AGCH-Specific-InformationResp-ItemTDD ::= SEQUENCE {
  e-AGCH-Id                E-AGCH-Id,
  iE-Extensions            ProtocolExtensionContainer { { E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs } } OPTIONAL,
  ...}

E-AGCH-Specific-InformationResp-ItemTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

E-AGCH-Id ::= INTEGER (0..31,...,32..255)

E-DCH-Information-Reconfig ::= SEQUENCE {
  e-PUCH-Information       E-PUCH-Information OPTIONAL,
  e-TFCS-Information-TDD   E-TFCS-Information-TDD OPTIONAL,
  e-DCH-MACdFlows-to-Add   E-DCH-MACdFlows-Information-TDD OPTIONAL,
  e-DCH-MACdFlows-to-Delete E-DCH-MACdFlows-to-Delete OPTIONAL,
  e-DCH-Non-Scheduled-Grant-Info
    E-DCH-Non-Scheduled-Grant-Info OPTIONAL,
  e-DCH-TDD-Information    E-DCH-TDD-Information OPTIONAL,
  e-DCH-TDD-Information-to-Modify
    E-DCH-TDD-Information-to-Modify OPTIONAL,
  iE-Extensions            ProtocolExtensionContainer { { E-DCH-Information-Reconfig-ExtIEs} } OPTIONAL,
  ...}

E-DCH-Information-Reconfig-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

E-DCH-TDD-Information-to-Modify ::= SEQUENCE {
  e-DCH-TDD-Information-to-Modify-List E-DCH-TDD-Information-to-Modify-List OPTIONAL,
mACeReset-Indicator     MACeReset-Indicator     OPTIONAL,
iE-Extensions     ProtocolExtensionContainer { { E-DCH-TDD-Information-to-Modify-ExtIEs } }  OPTIONAL,

...

E-DCH-TDD-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-E-DCH-MACdPDUSizeFormat     CRITICALITY reject     EXTENSION     E-DCH-MACdPDUSizeFormat     PRESENCE optional},
...

E-DCH-TDD-Information-to-Modify-List ::= SEQUENCE { SIZE {1..maxNrOfEDCHMACdFlows} } OF E-DCH-MACdFlow-ModifyTDDItem

E-DCH-MACdFlow-ModifyTDDItem ::= SEQUENCE {
e-DCH-MACdFlow-ID     E-DCH-MACdFlow-ID,
allocationRetentionPriority     AllocationRetentionPriority     OPTIONAL,
transportBearerRequestIndicator     TransportBearerRequestIndicator,
bindingID     BINDINGID     OPTIONAL,
transportLayerAddress     TransportLayerAddress     OPTIONAL,
tnlQos     TNLQOS     OPTIONAL,
maximum-Number-of-Retransmissions-For-E-DCH     Maximum-Number-of-Retransmissions-For-E-DCH     OPTIONAL,
eDCH-HARQ-PO-TDD     E-DCH-HARQ-PO-TDD     OPTIONAL,
eDCH-MACdFlow-Multiplexing-List     E-DCH-MACdFlow-Multiplexing-List     OPTIONAL,
eDCH-Grant-TypeTDD     E-DCH-Grant-TypeTDD     OPTIONAL,
e-DCH-LogicalChannelToAdd     E-DCH-LogicalChannelToAdd     OPTIONAL,
e-DCH-LogicalChannelToModify     E-DCH-LogicalChannelToModify     OPTIONAL,
e-DCH-LogicalChannelToDelete     E-DCH-LogicalChannelToDelete     OPTIONAL,
eDCH-MACdFlow-Retransmission-Timer     E-DCH-MACdFlow-Retransmission-Timer     OPTIONAL,
-- LCR TDD only
iE-Extensions     ProtocolExtensionContainer { { E-DCH-MACdFlow-ModifyTDDItem-ExtIEs } }  OPTIONAL,
...

E-DCH-MACdFlow-ModifyTDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in [23]

E-DCH-768-Information ::= SEQUENCE {
e-PUCH-Information     E-PUCH-Information,
e-TPCS-Information-TDD     E-TPCS-Information-TDD,
e-DCH-MACdFlows-Information-TDD     E-DCH-MACdFlows-Information-TDD,
e-DCH-Non-Scheduled-Grant-Info768     E-DCH-Non-Scheduled-Grant-Info768     OPTIONAL,
e-DCH-TDD-Information768     E-DCH-TDD-Information768,
iE-Extensions     ProtocolExtensionContainer { { E-DCH-768-Information-ExtIEs } }  OPTIONAL,
...

E-DCH-768-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

ETS
E-DCH-Non-Scheduled-Grant-Info768 ::= SEQUENCE {
  timeslotResource                    E-DCH-TimeslotResource,
  powerResource                      E-DCH-PowerResource,
  repetitionPeriod                   RepetitionPeriod,
  repetitionLength                   RepetitionLength,
  tdd-E-PUCH-Offset                  TddE-PUCH-Offset,
  tdd-ChannelisationCode768          TDD-ChannelisationCode768,
  iE-Extensions                      ProtocolExtensionContainer { { E-DCH-Non-Scheduled-Grant-Info768-ExtIEs } } OPTIONAL,
  ...
}

E-DCH-Non-Scheduled-Grant-Info768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-TDD-Information768 ::= SEQUENCE {
  e-DCH-TDD-Maximum-Bitrate768     E-DCH-TDD-Maximum-Bitrate768  OPTIONAL,
  e-DCH-Processing-Overload-Level     E-DCH-Processing-Overload-Level  OPTIONAL,
  e-DCH-PowerOffset-for-SchedulingInfo   E-DCH-PowerOffset-for-SchedulingInfo  OPTIONAL,
  iE-Extensions                      ProtocolExtensionContainer { { E-DCH-TDD-Information768-ExtIEs } } OPTIONAL,
  ...
}

E-DCH-TDD-Information768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-TDD-Maximum-Bitrate768 ::= INTEGER (0..17713,...)

E-DCH-768-Information-Reconfig ::= SEQUENCE {
  e-PUCH-Information        E-PUCH-Information        OPTIONAL,
  e-TFCS-Information-TDD    E-TFCS-Information-TDD    OPTIONAL,
  e-DCH-MACdFlows-to-Add    E-DCH-MACdFlows-Information-TDD  OPTIONAL,
  e-DCH-MACdFlows-to-Delete E-DCH-MACdFlows-to-Delete       OPTIONAL,
  e-DCH-Non-Scheduled-Grant-Info768   E-DCH-Non-Scheduled-Grant-Info768  OPTIONAL,
  e-DCH-TDD-Information768   E-DCH-TDD-Information768   OPTIONAL,
  e-DCH-TDD-Information-to-Modify E-DCH-TDD-Information-to-Modify  OPTIONAL,
  iE-Extensions                      ProtocolExtensionContainer { { E-DCH-768-Information-Reconfig-ExtIEs} } OPTIONAL,
  ...
}

E-DCH-768-Information-Reconfig-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-DCH-LCR-Information ::= SEQUENCE {
  e-PUCH-LCR-Information        E-PUCH-LCR-Information,
  e-TFCS-Information-TDD    E-TFCS-Information-TDD,
  e-DCH-MACdFlows-Information-TDD E-DCH-MACdFlows-Information-TDD,
  e-DCH-Non-Scheduled-Grant-LCR-Info   E-DCH-Non-Scheduled-Grant-LCR-Info  OPTIONAL,
  e-DCH-LCRTDD-Information    E-DCH-LCRTDD-Information,
  iE-Extensions                      ProtocolExtensionContainer { { E-DCH-LCR-Information-ExtIEs} } OPTIONAL,
  ...
}

E-DCH-LCR-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

ETSI
E-DCH-LCR-Information-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

E-PUCCH-LCR-Information ::= SEQUENCE {
  minCR CodeRate,
  maxCR CodeRate,
  hargInfo HARQ-Info-for-E-DCH,
  pRXdes-base PRXdes-base,
  e-PUCCH-TPC-StepSize TDD-TPC-UplinkStepSize-LCR,
  e-AOCH-TPC-StepSize TDD-TPC-DownlinkStepSize,
  iE-Extensions ProtocolExtensionContainer {
    { E-PUCCH-LCR-Information-ExtIEs } } OPTIONAL,
...}

E-PUCCH-LCR-Information-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-E-PUCCH-PowerControlGAP CRITICALITY ignore EXTENSION ControlGAP PRESENCE optional },
...
}

E-DCH-Non-Scheduled-Grant-LCR-Info ::= SEQUENCE {
  timeslotResourceLCR E-DCH-TimeslotResourceLCR,
  powerResource E-DCH-PowerResource,
  repetitionPeriod RepetitionPeriod,
  repetitionLength RepetitionLength,
  subframeNumber ENUMERATED {v0, v1},
  tddE-PUCCH-Offset TddE-PUCCH-Offset,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  n-E-UCCHLCR N-E-UCCHLCR,
  e-HICH-LCR-Information E-HICH-LCR-Information,
  iE-Extensions ProtocolExtensionContainer {
    { E-DCH-Non-Scheduled-Grant-LCR-Info-ExtIEs } } OPTIONAL,
...}

E-DCH-Non-Scheduled-Grant-LCR-Info-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

E-HICH-LCR-Information ::= SEQUENCE {
  e-HICH-ID-TDD E-HICH-ID-TDD,
  signatureSequenceGroupIndex SignatureSequenceGroupIndex,
  iE-Extensions ProtocolExtensionContainer {
    { E-HICH-LCR-Information-ExtIEs } } OPTIONAL,
...}

E-HICH-LCR-Information-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-Extended-E-HICH-ID-TDD CRITICALITY ignore EXTENSION Extended-E-HICH-ID-TDD PRESENCE optional },
  -- Applicable to 1.28Mcps TDD only when the E-HICH identity has a value larger than 31.
...
}

E-DCH-LCR-TDD-Information ::= SEQUENCE {
  e-DCH-LCR-TDD-PhysicalLayerCategory E-DCH-LCR-TDD-PhysicalLayerCategory OPTIONAL,
E-DCH-Processing-Overload-Level  E-DCH-Processing-Overload-Level  OPTIONAL,
e-DCH-PowerOffset-for-SchedulingInfo  E-DCH-PowerOffset-for-SchedulingInfo  OPTIONAL,
iE-Extensions  ProtocolExtensionContainer  {  {  E-DCH-LCRTDD-Information-ExtIEs  }  }  OPTIONAL,

...}  

E-DCH-LCRTDD-Information-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {  
...  {  [  [  ID id-Extended-E-DCH-LCRTDD-PhysicalLayerCategory  CRITICALITY reject  EXTENSION Extended-E-DCH-LCRTDD-PhysicalLayerCategory  PRESENCE optional  
  -- This IE shall be used if the E-DCH Physical Layer Category has a value larger than 5.  
  {  ID id-MaximumNumber-Of-Retransmission-for-Scheduling-Info-LCRTDD  CRITICALITY ignore  EXTENSION Maximum-Number-of-Retransmissions-For-E-DCH  PRESENCE optional  
    {  ID id-E-DCH-MACdFlow-Grant-LCR-Information  CRITICALITY ignore  EXTENSION E-DCH-MACdFlow-Grant-LCR-Information  PRESENCE optional  
      {  ID id-Enhanced-PACH-Capability  CRITICALITY ignore  EXTENSION Enhanced-PACH-Capability  PRESENCE optional  
    }  
  }  

E-DCH-LCRTDD-PhysicalLayerCategory ::= INTEGER(1..5)  

E-DCH-LCR-Information-Reconfig ::= SEQUENCE  {  
e-PUCCH-LCR-Information  E-PUCCH-LCR-Information  OPTIONAL,  
e-TFCS-Information-TDD  E-TFCS-Information-TDD  OPTIONAL,  
e-DCH-MACdFlows-to-Add  E-DCH-MACdFlows-Information-TDD  OPTIONAL,  
e-DCH-MACdFlows-to-Delete  E-DCH-MACdFlows-to-Delete  OPTIONAL,  
e-DCH-Non-Scheduled-Grant-LCR-Info  E-DCH-Non-Scheduled-Grant-LCR-Info  OPTIONAL,  
e-DCH-LCRTDD-Information  E-DCH-LCRTDD-Information  OPTIONAL,  
e-DCH-TDD-Information-to-Modify  E-DCH-TDD-Information-to-Modify  OPTIONAL,  
iE-Extensions  ProtocolExtensionContainer  {  {  E-DCH-LCR-Information-Reconfig-ExtIEs  }  }  OPTIONAL,  

...}  

E-DCH-LCR-Information-Reconfig-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {  
...  

Enabling-Delay ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128}  
- Unit of radio frames  

DormantModeIndicator ::= ENUMERATED {  
  enterDormantMode,  
  leaveDormantMode,  
  ...

}  

Enhanced-PACH-Capability ::= ENUMERATED {  
  enhanced-PACH-capable,  
  enhanced-PACH-non-capable  

}
EnhancedHSServingCC-Abort ::= ENUMERATED {abortEnhancedHSServingCC,...}

Enhanced-PCH-Capability ::= ENUMERATED {
  enhanced-PCH-capable,
  enhanced-PCH-non-capable
}

Enhanced-UE-DRX-Capability ::= ENUMERATED {
  enhanced-UE-DRX-capable,
  enhanced-UE-DRX-non-capable
}

Enhanced-UE-DRX-InformationFDD ::= SEQUENCE {
  t321          T321,
  hS-DSCH-DRX-Cycle-FACH      HS-DSCH-DRX-Cycle-FACH,
  hS-DSCH-RX-Burst-FACH       HS-DSCH-RX-Burst-FACH,
  drX-Interuption-by-hs-DSCH  DRX-Interuption-by-HS-DSCH,
  iE-Extensions             ProtocolExtensionContainer { { Enhanced-UE-DRX-InformationFDD-ExtIEs } }  OPTIONAL,
  ...
}

Enhanced-UE-DRX-InformationFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ...
}

Extended-E-DCH-LCRTDD-PhysicalLayerCategory ::= INTEGER(6,...)

Ext-Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(19983..22978,...)

Ext-Reference-E-TFCI-PO ::= INTEGER(30..31,...)

ExtendedPropagationDelay ::= INTEGER(255..1023)

Extended-RNC-ID ::= INTEGER (4096..65535)

Extended-Round-Trip-Time-Value ::= INTEGER(32767..103041)

-- See also mapping in [22]

Extended-HS-SCCH-ID ::= INTEGER (32..255)

Extended-HS-SICH-ID ::= INTEGER (32..255)

Extended-E-HICH-ID-TDD ::= INTEGER (32..255)

E-DCH-Semi-PersistentScheduling-Information-LCR ::= SEQUENCE {
  repetition-Period-List-LCR    Repetition-Period-List-LCR,
  e-DCH-SPS-Indicator         E-DCH-SPS-Indicator,
  sPS-E-DCH-related-E-HICH-Information E-HICH-LCR-Information,
  iE-Extensions             ProtocolExtensionContainer { { E-DCH-Semi-PersistentScheduling-Information-LCR-ExtIEs } }  OPTIONAL,
  ...
}
E-DCH-Semi-PersistentScheduling-Information-LCR-ExtIEs \(\text{NBAP-PROTOCOL-EXTENSION} := \left\{}\ right\}\)
\[
\{ \text{id-E-DCH-SPS-Reservation-Indicator} \ \text{CRITICALITY reject} \ \text{EXTENSION} \ \text{SPS-Reservation-Indicator} \ \text{PRESENCE optional} \},
\]

E-DCH-SPS-Indicator := BIT STRING (SIZE (16))

E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR := SEQUENCE

- repetition-Period-List-LCR  Repetition-Period-List-LCR  OPTIONAL,
- e-DCH-SPS-Indicator  E-DCH-SPS-Indicator  OPTIONAL,
- sPS-E-DCH-related-E-HICH-Information  E-HICH-LCR-Information  OPTIONAL,
- iE-Extensions  ProtocolExtensionContainer  \{ \ \text{E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR-ExtIEs} \}  OPTIONAL,

E-DCH-Semi-PersistentScheduling-Information-to-Modify-LCR-ExtIEs \(\text{NBAP-PROTOCOL-EXTENSION} := \left\{}\ right\}\)
\[
\{ \text{id-E-DCH-SPS-Reservation-Indicator} \ \text{CRITICALITY ignore} \ \text{EXTENSION} \ \text{SPS-Reservation-Indicator} \ \text{PRESENCE optional} \},
\]

E-DCH-Semi-PersistentScheduling-Information-ResponseLCR := SEQUENCE

- timeslot-Resource-Related-Information  E-DCH-TimeslotResourceLCR,
- powerResource  E-DCH-PowerResource,
- repetition-Period-List-LCR  Repetition-Period-List-LCR  OPTIONAL,
- repetitionLength  RepetitionLength,
- subframeNumber  ENUMERATED \{v0, v1\},
- tddE-PUCH-Offset  TddE-PUCH-Offset,
- tdd-ChannelisationCode  TDD-ChannelisationCode,
- n-E-UCCHLCR  N-E-UCCHLCR,
- iE-Extensions  ProtocolExtensionContainer  \{ \ \text{E-DCH-Semi-PersistentScheduling-Information-ResponseLCR-ExtIEs} \}  OPTIONAL,

E-DCH-Semi-PersistentScheduling-Information-ResponseLCR-ExtIEs \(\text{NBAP-PROTOCOL-EXTENSION} := \left\{}\ right\}\)
\[
\{ \text{id-RepetitionPeriodIndex} \ \text{CRITICALITY reject} \ \text{EXTENSION} \ \text{RepetitionPeriodIndex} \ \text{PRESENCE optional} \},
\]

FACH-Measurement-Occasion-Cycle-Length-Coefficient := INTEGER(1..12)

Fast-Reconfiguration-Mode := ENUMERATED \{fast, ...\}

Fast-Reconfiguration-Permission := ENUMERATED \{allowed, ...\}

FDD-DL-ChannelisationCodeNumber := INTEGER(0.. 511)

-- According to the mapping in [9]. The maximum value is equal to the DL spreading factor -1--
FDD-DL-CodeInformation ::= SEQUENCE {SIZE (1..maxNrOfCodes)} OF FDD-DL-CodeInformationItem

FDD-DL-CodeInformationItem ::= SEQUENCE {
  dl-ScramblingCode          DL-ScramblingCode,
  fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  transmissionGapPatternSequenceCodeInformation OPTIONAL,
  iE-Extensions              ProtocolExtensionContainer { { FDD-DL-CodeInformationItem-ExtIEs} } OPTIONAL,
  ...}

FDD-DL-CodeInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

FDD-S-CCPCH-FrameOffset ::= ENUMERATED {
  v1, v2, v4, ...}

FDD-S-CCPCH-Offset ::= INTEGER (0..149)
-- 0: 0 chip, 1: 256 chip, 2: 512 chip, ...,149: 38144 chip [7] --

FDD-TPC-DownlinkStepSize ::= ENUMERATED {
  step-size0-5,
  step-size1,
  step-size1-5,
  step-size2,
  ...}

F-DPCH-Capability ::= ENUMERATED {
  f-DPCH-capable,
  f-DPCH-non-capable}

F-TPCH-SlotFormat ::= INTEGER (0..9)

F-TPCH-SlotFormatCapability ::= ENUMERATED {
  f-TPCH-slot-format-capable,
  f-TPCH-slot-format-non-capable}

FirstRLS-Indicator ::= ENUMERATED {
  first-RLS,
  not-first-RLS,
  ...}

FNReportingIndicator ::= ENUMERATED {
  fN-reporting-required,
  fN-reporting-not-required}
FrameHandlingPriority ::= INTEGER (0..15)
   -- 0=lowest priority, 15=highest priority --
FrameAdjustmentValue ::= INTEGER(0..4095)
FrameOffset ::= INTEGER (0..255)

FPACH-Power ::= INTEGER (-150..400,...) -- FPACH-power = power * 10
   -- If power <= -15 FPACH shall be set to -150
   -- If power >= 40 FPACH shall be set to 400
   -- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB
   -- ==============================================================
   -- G
   -- ==============================================================

GANSS-AddClockModels ::= CHOICE {
   navClockModel      GANSS-NAVclockModel,
   cnavClockModel      GANSS-CNAVclockModel,
   glonassClockModel     GANSS-GLONASSclockModel,
   sbasClockModel      GANSS-SBASclockModel,
   ...
}

GANSS-AddIonoModelReq ::= BIT STRING (SIZE(2))

GANSS-AddNavigationModelsReq ::= BOOLEAN

GANSS-AddOrbitModels ::= CHOICE {
   navKeplerianSet      GANSS-NavModel-NAVKeplerianSet,
   cnavKeplerianSet    GANSS-NavModel-CNAVKeplerianSet,
   glonassECEF      GANSS-NavModel-GLONASSecef,
   sbasECEF      GANSS-NavModel-SBASecef,
   ...
}

GANSS-AddUTCModelsReq ::= BOOLEAN

GANSS-Additional-Ionospheric-Model ::= SEQUENCE {
   dataID        BIT STRING (SIZE(2)),
   alpha-beta-parameters    GPS-Ionospheric-Model,
   ie-Extensions      ProtocolExtensionContainer { { GANSS-Additional-Ionospheric-Model-ExtIEs } } OPTIONAL,
   ...
}

GANSS-Additional-Ionospheric-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  ...  }

GANSS-Additional-Navigation-Models ::= SEQUENCE {  ...
}
**ETSI TS 125 433 V9.5.0 (2011-03)**

1076

**3GPP TS 25.433 version 9.5.0 Release 9**

```plaintext
GANSS-Additional-Navigation-Models-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-Additional-Time-Models ::= SEQUENCE {SIZE (1..maxGANSS-1)} OF GANSS-Time-Model

GANSS-Additional-UTC-Models ::= CHOICE {
  utcModel1   GANSS-UTCmodelSet1,
  utcModel2   GANSS-UTCmodelSet2,
  utcModel3   GANSS-UTCmodelSet3,
  ...}

GANSS-Almanac ::= SEQUENCE{
  ganss-wk-number      INTEGER(0..255),
  gANSS-AlmanacModel     GANSS-AlmanacModel,
  ie-Extensions       ProtocolExtensionContainer { { GANSS-Almanac-ExtIEs } }  OPTIONAL,
  ...}

GANSS-Almanac-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-AlmanacModel ::= CHOICE {
  gANSS-keplerianParameters   GANSS-KeplerianParametersAlm,
  ...,  
  extension-GANSS-AlmanacModel  Extension-GANSS-AlmanacModel
}

Extension-GANSS-AlmanacModel ::= ProtocolIE-Single-Container { { Extension-GANSS-AlmanacModel-IE } }

Extension-GANSS-AlmanacModel-IE NBAP-PROTOCOL-IES ::= {
  { ID id-GANSS-alm-keplerianNAVAlmanac   CRITICALITY  ignore  TYPE GANSS-ALM-NAVKeplerianSet   PRESENCE mandatory}|
  { ID id-GANSS-alm-keplerianReducedAlmanac  CRITICALITY  ignore  TYPE GANSS-ALM-ReducedKeplerianSet  PRESENCE mandatory}|
  { ID id-GANSS-alm-keplerianMidiAlmanac   CRITICALITY  ignore  TYPE GANSS-ALM-MidiAlmanacSet    PRESENCE mandatory}|
  { ID id-GANSS-alm-keplerianGLONASS    CRITICALITY  ignore  TYPE GANSS-ALM-GlonassAlmanacSet   PRESENCE mandatory}|
```

**ETSI**
GANSS-ALM-ECEFsbasAlmanacSet ::= SEQUENCE {
sat-info-SBAsecefList  GANSS-SAT-Info-Almanac-SBAsecefList,
ie-Extensions ProtocolExtensionContainer { { GANSS-ALM-ECEFsbasAlmanacSet-ExtIEs } }  OPTIONAL,
...
}

GANSS-ALM-MidiAlmanacSet ::= SEQUENCE {
t-oa      INTEGER (0..255),
sat-info-MIDIkpList   GANSS-SAT-Info-Almanac-MIDIkpList,
ie-Extensions ProtocolExtensionContainer { { GANSS-ALM-MidiAlmanacSet-ExtIEs } }  OPTIONAL,
...
}

GANSS-ALM-NAVKeplerianSet ::= SEQUENCE {
t-oa      INTEGER (0..255),
sat-info-NAVkpList   GANSS-SAT-Info-Almanac-NAVkpList,
ie-Extensions ProtocolExtensionContainer { { GANSS-ALM-NAVKeplerianSet-ExtIEs } }  OPTIONAL,
...
}

GANSS-ALM-GlonassAlmanacSet ::= SEQUENCE {
sat-info-GLOkpList   GANSS-SAT-Info-Almanac-GLOkpList,
ie-Extensions ProtocolExtensionContainer { { GANSS-ALM-GlonassAlmanacSet-ExtIEs } }  OPTIONAL,
...

GANSS-ALM-GlonassAlmanacSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

GANSS-ALM-MidiAlmanacSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

GANSS-ALM-NAVKeplerianSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
GANSS-ALM-ReducedKeplerianSet ::= SEQUENCE {
  t-oa       INTEGER (0..255),
  sat-info-REDkpList  GANSS-SAT-Info-Almanac-REDkpList,
  ie-Extensions  ProtocolExtensionContainer { { GANSS-ALM-ReducedKeplerianSet-ExtIEs } } OPTIONAL,
  ... 
}

GANSS-ALM-ReducedKeplerianSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

GANSS-Auxiliary-Information ::= CHOICE {
  ganssID1  GANSS-AuxInfoGANSS-ID1,  -- This choice may only be present if GANSS ID indicates Modernized GPS
  ganssID3  GANSS-AuxInfoGANSS-ID3,  -- This choice may only be present if GANSS ID indicates GLONASS
  ...
}

GANSS-AuxInfoGANSS-ID1 ::= SEQUENCE (SIZE(1.. maxGANSSSat)) OF GANSS-AuxInfoGANSS-ID1-element

GANSS-AuxInfoGANSS-ID1-element ::= SEQUENCE {
  svID      INTEGER(0..63),
  signalsAvailable  BIT STRING (SIZE(8)),
  ie-Extensions  ProtocolExtensionContainer { { GANSS-AuxInfoGANSS-ID1-element-ExtIEs } } OPTIONAL,
  ...
}

GANSS-AuxInfoGANSS-ID1-element-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-AuxInfoGANSS-ID3 ::= SEQUENCE (SIZE(1.. maxGANSSSat)) OF GANSS-AuxInfoGANSS-ID3-element

GANSS-AuxInfoGANSS-ID3-element ::= SEQUENCE {
  svID      INTEGER(0..63),
  signalsAvailable  BIT STRING (SIZE(8)),
  channelNumber INTEGER (-7..13),
  ie-Extensions  ProtocolExtensionContainer { { GANSS-AuxInfoGANSS-ID3-element-ExtIEs } } OPTIONAL,
  ...
}

GANSS-AuxInfoGANSS-ID3-element-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-AuxInfoReq ::= BOOLEAN

GANSS-Clock-Model ::= SEQUENCE (SIZE (1..maxGANSSClockMod)) OF GANSS-SatelliteClockModelItem

GANSS-CNAVclockModel ::= SEQUENCE {
  cnavToc    BIT STRING (SIZE (11)),
  ...
cnavTop BIT STRING (SIZE (11)),
cnavURA0 BIT STRING (SIZE (5)),
cnavURA1 BIT STRING (SIZE (3)),
cnavURA2 BIT STRING (SIZE (3)),
cnavURA3 BIT STRING (SIZE (10)),
cnavAf1 BIT STRING (SIZE (20)),
cnavAf0 BIT STRING (SIZE (26)),
cnavTgd BIT STRING (SIZE (13)),
cnavISCl1cp BIT STRING (SIZE (13)) OPTIONAL,
cnavISCl1cd BIT STRING (SIZE (13)) OPTIONAL,
cnavISCl1ca BIT STRING (SIZE (13)) OPTIONAL,
cnavISCl2c BIT STRING (SIZE (13)) OPTIONAL,
cnavISCl2i5 BIT STRING (SIZE (13)) OPTIONAL,
cnavISCl5q5 BIT STRING (SIZE (13)) OPTIONAL,
ie-Extensions ProtocolExtensionContainer { { GANSS-CNAVclockModel-ExtIEs } } OPTIONAL,

GANSS-CNAVclockModel-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

GANSS-Common-Data ::= SEQUENCE {
ganss-Ionospheric-Model GANSS-Ionospheric-Model OPTIONAL,
ganss-Rx-Pos GANSS-RX-Pos OPTIONAL,
ie-Extensions ProtocolExtensionContainer { { GANSS-Common-Data-ExtIEs } } OPTIONAL,

...

GANSS-Common-Data-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

{ ID id-GANSS-Additional-Ionospheric-Model CRITICALITY ignore EXTENSION GANSS-Additional-Ionospheric-Model PRESENCE optional } |
{ ID id-GANSS-Earth-Orientation-Parameters CRITICALITY ignore EXTENSION GANSS-Earth-Orientation-Parameters PRESENCE optional },

...

GANSS-CommonDataInfoReq ::= SEQUENCE {
ionospheric-Model BOOLEAN OPTIONAL,
ie-Extensions ProtocolExtensionContainer { { GANSS-CommonDataInfoReq-ExtIEs } } OPTIONAL,

...

GANSS-CommonDataInfoReq-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

{ ID id-GANSS-AddIonoModelReq CRITICALITY ignore EXTENSION GANSS-AddIonoModelReq PRESENCE optional } |
{ ID id-GANSS-EarthOrientParaReq CRITICALITY ignore EXTENSION GANSS-EarthOrientParaReq PRESENCE optional },

...
GANSS-Data-Bit-Assistance ::= SEQUENCE {
    ganssTod        INTEGER (0..59,...),
    dataBitAssistanceList GANSS-DataBitAssistanceList,  
    ie-Extensions      ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-ExtIEs } } OPTIONAL,
    ... 
}

GANSS-Data-Bit-Assistance-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ... 
}

GANSS-DataBitAssistanceList ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF GANSS-DataBitAssistanceItem

GANSS-DataBitAssistanceItem ::= SEQUENCE {
    satId       INTEGER(0..63),
    dataBitAssistanceSgnList  GANSS-DataBitAssistanceSgnList,  
    ie-Extensions      ProtocolExtensionContainer { { GANSS-DataBitAssistanceItem-ExtIEs } } OPTIONAL,
    ... 
}

GANSS-DataBitAssistanceItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ... 
}

GANSS-DataBitAssistanceSgnList ::= SEQUENCE (SIZE (1..maxSgnType)) OF GANSS-DataBitAssistanceSgnItem

GANSS-DataBitAssistanceSgnItem ::= SEQUENCE {
    ganss-SignalId   GANSS-Signal-ID,  
    ganssDataBits   BIT STRING (SIZE (1..1024)),  
    ie-Extensions   ProtocolExtensionContainer { { GANSS-DataBitAssistanceSgnItem-ExtIEs } } OPTIONAL,
    ... 
}

GANSS-DataBitAssistanceSgnItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ... 
}

GANSS-Data-Bit-Assistance-ReqItem ::= SEQUENCE {
    ganssTod        INTEGER (0..86399),
    ganss-Data-Bit-Assistance-ReqList  GANSS-Data-Bit-Assistance-ReqList,  
    iE-Extensions       ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-ReqItem-ExtIEs } } OPTIONAL,
    ... 
}

GANSS-Data-Bit-Assistance-ReqItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ... 
}

GANSS-Data-Bit-Assistance-ReqList ::= SEQUENCE {
    dGANSS-Signal-ID     BIT STRING (SIZE (8)),
ganSS-DataBitInterval INTEGER(0..15),
ganSS-SatelliteInfo SEQUENCE {SIZE {1..maxGANSSsat}} OF INTEGER(0..63) OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { GANSS-Data-Bit-Assistance-ReqList-ExtIEs } } OPTIONAL,
...
GANSS-Data-Bit-Assistance-ReqList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
GANSS-DeltaUT1 ::= SEQUENCE {
b1 BIT STRING (SIZE(11)),
b2 BIT STRING (SIZE(10)),
iE-Extensions ProtocolExtensionContainer { { GANSS-DeltaUT1-ExtIEs } } OPTIONAL,
...
}
GANSS-DeltaUT1-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
GANSS-Earth-Orientation-Parameters ::= SEQUENCE {
teop BIT STRING (SIZE (16)),
pex BIT STRING (SIZE (21)),
pexdot BIT STRING (SIZE (15)),
pem BIT STRING (SIZE (21)),
pemdot BIT STRING (SIZE (15)),
deltaUT1 BIT STRING (SIZE (31)),
deltaUT1dot BIT STRING (SIZE (19)),
iE-Extensions ProtocolExtensionContainer { { GANSS-Earth-Orientation-Parameters-ExtIEs } } OPTIONAL,
...
}
GANSS-Earth-Orientation-Parameters-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
GANSS-EarthOrientParaReq ::= BOOLEAN
GANSS-GenericDataInfoReqList ::= SEQUENCE {SIZE(1..maxNoGANSS)} OF GANSS-GenericDataInfoReqItem
GANSS-GenericDataInfoReqItem ::= SEQUENCE {
ganSS-Id GANSS-ID OPTIONAL,
ganSS-Navigation-Model-And-Time-Recovery BOOLEAN OPTIONAL,
ganSS-Time-Model-GNSS-GNSS BIT STRING (SIZE (9)) OPTIONAL,
ganSS-UTC-Model BOOLEAN OPTIONAL,
ganSS-Almanac BOOLEAN OPTIONAL,
ganSS-Real-Time-Integrity BOOLEAN OPTIONAL,
ganSS-Data-Bit-Assistance-Req GANSS-Data-Bit-Assistance-ReqItem OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { GANSS-GenericDataInfoReqItem-ExtIEs } } OPTIONAL,
GANSS-GenericDataInfoReqItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-GANSS-AddNavigationModelsReq CRITICALITY ignore EXTENSION GANSS-AddNavigationModelsReq
     PRESENCE optional} |
    {ID id-GANSS-AddUTCModelsReq CRITICALITY ignore EXTENSION GANSS-AddUTCModelsReq
     PRESENCE optional} |
    {ID id-GANSS-AuxInfoReq CRITICALITY ignore EXTENSION GANSS-AuxInfoReq
     PRESENCE optional} |
    -- The following IE shall be present if "GANSS-ID" in "GANSS-GenericDataInfoReqItem" is "0" (SBAS)
    {ID id-GANSS-SBAS-ID CRITICALITY ignore EXTENSION GANSS-SBAS-ID PRESENCE optional},
    ...
}

GANSS-Generic-Data ::= SEQUENCE (SIZE(1..maxNoGANSS)) OF GANSS-Generic-DataItem

GANSS-Generic-DataItem ::= SEQUENCE {
    ganss-Id             GANSS-ID OPTIONAL,
    dganss-Correction    DGANSSCorrections OPTIONAL,
    ganss-Navigation-Model-And-Time-Recovery GANSS-Navigation-Model-And-Time-Recovery OPTIONAL,
    ganss-Time-Model     GANSS-Time-Model OPTIONAL,
    ganss-UTC-TIME       GANSS-UTC-Model OPTIONAL,
    ganss-Almanac        GANSS-Almanac OPTIONAL,
    ganss-Real-Time-Integrity GANSS-Real-Time-Integrity OPTIONAL,
    ganss-Data-Bit-Assistance GANSS-Data-Bit-Assistance OPTIONAL,
    ie-Extensions        ProtocolExtensionContainer { { GANSS-Generic-DataItem-ExtIEs } } OPTIONAL,
    ...
}

GANSS-Generic-DataItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-GANSS-Additional-Time-Models CRITICALITY ignore EXTENSION GANSS-Additional-Time-Models
     PRESENCE optional } |
     PRESENCE optional } |
    {ID id-GANSS-Additional-UTC-Models CRITICALITY ignore EXTENSION GANSS-Additional-UTC-Models
     PRESENCE optional } |
    -- The following element shall be present if "GANSS-ID" in "GANSS-Generic-DataItem" is "0" ("SBAS")
    {ID id-GANSS-SBAS-ID CRITICALITY ignore EXTENSION GANSS-SBAS-ID PRESENCE optional },
    ...
}
GANSS-GLONASSClockModel ::= SEQUENCE {
  gloTau       BIT STRING (SIZE (22)),
  gloGamma     BIT STRING (SIZE (11)),
  gloDeltaTau  BIT STRING (SIZE (5)) OPTIONAL,
  ie-Extensions ProtocolExtensionContainer { { GANSS-GLONASSClockModel-ExtIEs } } OPTIONAL,
  ...
}

GANSS-GLONASSClockModel-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-ID ::= INTEGER(0..7,...)

GANSS-Information ::= SEQUENCE {
  gANSS-CommonDataInfoReq         GANSS-CommonDataInfoReq OPTIONAL,
  gANSS-GenericDataInfoReqList    GANSS-GenericDataInfoReqList OPTIONAL,
  ie-Extensions                   ProtocolExtensionContainer { { GANSS-Information-ExtIEs } } OPTIONAL,
  ...
}

GANSS-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-Ionospheric-Model ::= SEQUENCE {
  alpha-zero-ionos    BIT STRING (SIZE (12)),
  alpha-one-ionos     BIT STRING (SIZE (12)),
  alpha-two-ionos     BIT STRING (SIZE (12)),
  gANSS-IonosphereRegionalStormFlags GANSS-IonosphereRegionalStormFlags OPTIONAL,
  ie-Extensions       ProtocolExtensionContainer { { GANSS-Ionospheric-Model-ExtIEs } } OPTIONAL,
  ...
}

GANSS-Ionospheric-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-IonosphereRegionalStormFlags ::= SEQUENCE {
  storm-flag-one        BOOLEAN,
  storm-flag-two        BOOLEAN,
  storm-flag-three      BOOLEAN,
  storm-flag-four       BOOLEAN,
  storm-flag-five       BOOLEAN,
  ie-Extensions         ProtocolExtensionContainer { { GANSS-IonosphereRegionalStormFlags-ExtIEs } } OPTIONAL,
  ...
}
GANSS-IonosphereRegionalStormFlags-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

GANSS-KeplerianParametersAlm ::= SEQUENCE {
   t-oa            INTEGER (0..255),
   iod-a           INTEGER (0..3),
   gANSS-SatelliteInformationKP GANSS-SatelliteInformationKP,
   ie-Extensions   ProtocolExtensionContainer { { GANSS-KeplerianParametersAlm-ExtIEs } } OPTIONAL,
...
}

GANSS-KeplerianParametersAlm-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

GANSS-KeplerianParametersOrb ::= SEQUENCE {
   toe-nav            BIT STRING (SIZE (14)),
   ganss-omega-nav    BIT STRING (SIZE (32)),
   delta-n-nav        BIT STRING (SIZE (16)),
   m-zero-nav         BIT STRING (SIZE (32)),
   omegadot-nav       BIT STRING (SIZE (24)),
   ganss-e-nav        BIT STRING (SIZE (32)),
   idot-nav           BIT STRING (SIZE (14)),
   a-sqrt-nav         BIT STRING (SIZE (32)),
   i-zero-nav         BIT STRING (SIZE (32)),
   omega-zero-nav     BIT STRING (SIZE (32)),
   c-rs-nav           BIT STRING (SIZE (16)),
   c-is-nav           BIT STRING (SIZE (16)),
   c-us-nav           BIT STRING (SIZE (16)),
   c-rc-nav           BIT STRING (SIZE (16)),
   c-ic-nav           BIT STRING (SIZE (16)),
   c-uc-nav           BIT STRING (SIZE (16)),
   ie-Extensions      ProtocolExtensionContainer { { GANSS-KeplerianParametersOrb-ExtIEs } } OPTIONAL,
...
}

GANSS-KeplerianParametersOrb-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

GANSS-NAVclockModel ::= SEQUENCE {
   navToc            BIT STRING (SIZE (16)),
   navaf2            BIT STRING (SIZE (8)),
   navaf1            BIT STRING (SIZE (16)),
   navaf0            BIT STRING (SIZE (22)),
   navTgd            BIT STRING (SIZE (8)),
   ie-Extensions     ProtocolExtensionContainer { { GANSS-NAVclockModel-ExtIEs } } OPTIONAL,
...
}

GANSS-NAVclockModel-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
GANSS-NAVclockModel-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-Navigation-Model-And-Time-Recovery ::= SEQUENCE {
  ganss-Transmission-Time  GANSS-Transmission-Time,  
  non-broadcastIndication  ENUMERATED{true}  OPTIONAL, 
  ganssSatInfoNav  GANSS-Sat-Info-Nav, 
  ie-Extensions  ProtocolExtensionContainer { { GANSS-Navigation-Model-And-Time-Recovery-ExtIEs } } OPTIONAL, 
  ...
}

GANSS-Navigation-Model-And-Time-Recovery-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-NavModel-CNAVKeplerianSet ::= SEQUENCE {
  cnavTop     BIT STRING (SIZE (11)), 
  cnavURAIndex   BIT STRING (SIZE (5)), 
  cnavDeltaA    BIT STRING (SIZE (26)),
  cnavAdot    BIT STRING (SIZE (25)),
  cnavDeltaNo    BIT STRING (SIZE (17)),
  cnavDeltaNoDot   BIT STRING (SIZE (23)),
  cnavNo     BIT STRING (SIZE (33)),
  cnavE     BIT STRING (SIZE (33)),
  cnavE0     BIT STRING (SIZE (33)),
  cnavOmegaA     BIT STRING (SIZE (33)),
  cnavOmegaDot    BIT STRING (SIZE (17)),
  cnavI0     BIT STRING (SIZE (33)),
  cnavI0Dot    BIT STRING (SIZE (15)),
  cnavCis     BIT STRING (SIZE (16)),
  cnavCic     BIT STRING (SIZE (16)),
  cnavCrs     BIT STRING (SIZE (24)),
  cnavCrc     BIT STRING (SIZE (24)),
  cnavCus     BIT STRING (SIZE (21)),
  cnavCuc     BIT STRING (SIZE (21)),
  ie-Extensions  ProtocolExtensionContainer { { GANSS-NavModel-CNAVKeplerianSet-ExtIEs } } OPTIONAL, 
  ...
}

GANSS-NavModel-CNAVKeplerianSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-NavModel-GLONASSecef ::= SEQUENCE {
  gloEn     BIT STRING (SIZE (5)),
  gloP1     BIT STRING (SIZE (2)),
  gloP2     BIT STRING (SIZE (1)),
  ...
}

GANSS-NavModel-GLONASSecef-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
GANS-S-NavModel-GLONASScef-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
        ...
    }

GANS-S-NavModel-NAVKeplerianSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
        ...
    }

GANS-S-NavModel-SBAScef ::= SEQUENCE {
    sbasTo     BIT STRING (SIZE (13))            OPTIONAL,
    sbasAccuracy   BIT STRING (SIZE (4)),
    sbasXg     BIT STRING (SIZE (30)),
    sbasYg     BIT STRING (SIZE (30)),
GANSS-NavModel-SBAScef-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-Orbit-Model ::= CHOICE {
  gANSS-keplerianParameters GANSS-KeplerianParametersOrb,
  ...
}

GANSS-Real-Time-Integrity ::= SEQUENCE (SIZE (1..maxGANSSsat)) OF GANSS-RealTimeInformationItem

GANSS-RealTimeInformationItem ::= SEQUENCE {
  bad-ganss-satId INTEGER(0..63),
  bad-ganss-signalId BIT STRING(SIZE(8)) OPTIONAL,
  ie-Extensions ProtocolExtensionContainer { { GANSS-RealTimeInformationItem-ExtIEs } } OPTIONAL,
  ...
}

GANSS-RealTimeInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-RX-Pos ::= SEQUENCE {
  latitudeSign ENUMERATED{north,south},
  degreesOfLatitude INTEGER(0..2147483647),
  degreesOfLongitude INTEGER(-2147483648..2147483647),
  directionOfAltitude ENUMERATED{height,depth},
  altitude INTEGER(0..32767),
  ie-Extensions ProtocolExtensionContainer { { GANSS-RX-Pos-ExtIEs } } OPTIONAL,
  ...
}

GANSS-RX-Pos-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
GANSS-SatelliteClockModelItem ::= SEQUENCE {
    t-oc          BIT STRING (SIZE (14)),
    a-i2         BIT STRING (SIZE (12)),
    a-i1         BIT STRING (SIZE (18)),
    a-i0         BIT STRING (SIZE (28)),
    t-gd         BIT STRING (SIZE (10)) OPTIONAL,
    model-id     INTEGER (0..1,...) OPTIONAL,
    ie-Extensions ProtocolExtensionContainer { { GANSS-SatelliteClockModelItem-ExtIEs } } OPTIONAL,
    ...
}

GANSS-SatelliteClockModelItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

GANSS-SatelliteInformationKP ::= SEQUENCE (SIZE (1..maxGANSSSatAlmanac)) OF GANSS-SatelliteInformationKPItem

GANSS-SatelliteInformationKPItem ::= SEQUENCE {
    satId        INTEGER (0..63),
    ganss-e-alm  BIT STRING (SIZE (11)),
    ganss-delta-l-alm BIT STRING (SIZE (11)),
    ganss-omegadot-alm BIT STRING (SIZE (11)),
    ganss-svhealth-alm BIT STRING (SIZE (4)),
    ganss-delta-a-sqrt-alm BIT STRING (SIZE (17)),
    ganss-omegazero-alm BIT STRING (SIZE (16)),
    ganss-m-zero-alm BIT STRING (SIZE (16)),
    ganss-omega-alm  BIT STRING (SIZE (16)),
    ganss-af-zero-alm BIT STRING (SIZE (14)),
    ganss-af-one-alm BIT STRING (SIZE (11)),
    ie-Extensions  ProtocolExtensionContainer { { GANSS-SatelliteInformationKPItem-ExtIEs } } OPTIONAL,
    ...
}

GANSS-SatelliteInformationKPItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Ganss-Sat-Info-AddNavList ::= SEQUENCE (SIZE (1..maxGANSSSat)) OF SEQUENCE {
    satId      INTEGER (0..63),
    svHealth   BIT STRING (SIZE (6)),
    iod        BIT STRING (SIZE (11)),
    ganssAddClockModels  GANSS-AddClockModels,
    ganssAddOrbitModels  GANSS-AddOrbitModels,
    ie-Extensions ProtocolExtensionContainer { { Ganss-Sat-Info-AddNavList-ExtIEs } } OPTIONAL,
    ...
}

Ganss-Sat-Info-AddNavList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Ganss-Sat-Info-AddNavList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
GANSS-SAT-Info-Almanac-GLOkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF GANSS-SAT-Info-Almanac-GLOkp

GANSS-SAT-Info-Almanac-GLOkp ::= SEQUENCE {
gloAlmA  BIT STRING (SIZE(5)),
gloAlmHA BIT STRING (SIZE(5)),
gloAlmLambdaA BIT STRING (SIZE(21)),
gloAlmDeltaiA BIT STRING (SIZE(18)),
gloAlmDeltaTA BIT STRING (SIZE(22)),
gloAlmDeltaTdotA BIT STRING (SIZE(7)),
gloAlmEpsionA BIT STRING (SIZE(15)),
gloAlmOmegaA BIT STRING (SIZE(16)),
gloAlmTA BIT STRING (SIZE(10)),
gloAlmCA BIT STRING (SIZE(1)),
gloAlmA  BIT STRING (SIZE(2))
OPTIONAL,
  ie-Extensions ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-GLOkp-ExtIEs } } OPTIONAL,
...
}

GANSS-SAT-Info-Almanac-GLOkp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

GANSS-SAT-Info-Almanac-MIDIkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF GANSS-SAT-Info-Almanac-MIDIkp

GANSS-SAT-Info-Almanac-MIDIkp ::= SEQUENCE {
svID INTEGER(0..63),
midiAlmE  BIT STRING (SIZE(11)),
midiAlmDeltaI BIT STRING (SIZE(11)),
midiAlmOmegaDot BIT STRING (SIZE(11)),
midiAlmSqrtA BIT STRING (SIZE(17)),
midiAlmOmega0 BIT STRING (SIZE(16)),
midiAlmOmega BIT STRING (SIZE(16)),
midiAlmMo BIT STRING (SIZE(16)),
midiAlmAf0 BIT STRING (SIZE(11)),
midiAlmAf1 BIT STRING (SIZE(10)),
midiAlmL1Health BIT STRING (SIZE(1)),
midiAlmL2Health BIT STRING (SIZE(1)),
midiAlmL5Health BIT STRING (SIZE(1)),
ie-Extensions ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-MIDIkp-ExtIEs } } OPTIONAL,
...
}

GANSS-SAT-Info-Almanac-MIDIkp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
GANSS-SAT-Info-Almanac-NAVkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF GANSS-SAT-Info-Almanac-NAVkp

GANSS-SAT-Info-Almanac-NAVkp ::= SEQUENCE {
    svID INTEGER(0..63),
    navAlmE BIT STRING (SIZE (16)),
    navAlmDeltaI BIT STRING (SIZE (16)),
    navAlmOMEGADOT BIT STRING (SIZE (16)),
    navAlmSVHealth BIT STRING (SIZE (8)),
    navAlmSqrtA BIT STRING (SIZE (24)),
    navAlmOMEGAo BIT STRING (SIZE (24)),
    navAlmOmega BIT STRING (SIZE (24)),
    navAlmMo BIT STRING (SIZE (24)),
    navAlmaf0 BIT STRING (SIZE (11)),
    navAlmaf1 BIT STRING (SIZE (11)),
    ie-Extensions ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-NAVkp-ExtIEs } } OPTIONAL,
    ...
}

GANSS-SAT-Info-Almanac-NAVkp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

GANSS-SAT-Info-Almanac-REDkpList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF GANSS-SAT-Info-Almanac-REDkp

GANSS-SAT-Info-Almanac-REDkp ::= SEQUENCE {
    svID INTEGER(0..63),
    redAlmDeltaA BIT STRING (SIZE (8)),
    redAlmOmega0 BIT STRING (SIZE (7)),
    redAlmPhi0 BIT STRING (SIZE (7)),
    redAlmL1Health BIT STRING (SIZE (1)),
    redAlmL2Health BIT STRING (SIZE (1)),
    redAlmL5Health BIT STRING (SIZE (1)),
    ie-Extensions ProtocolExtensionContainer { { GANSS-SAT-Info-Almanac-REDkp-ExtIEs } } OPTIONAL,
    ...
}

GANSS-SAT-Info-Almanac-REDkp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

GANSS-SAT-Info-Almanac-SBASecefList ::= SEQUENCE (SIZE (1.. maxGANSSSatAlmanac)) OF GANSS-SAT-Info-Almanac-SBASecef

GANSS-SAT-Info-Almanac-SBASecef ::= SEQUENCE {
    sbasAlmDataID BIT STRING (SIZE(2)),
    svID INTEGER(0..63),
    sbasAlmHealth BIT STRING (SIZE(8)),
    sbasAlmXg BIT STRING (SIZE(15)),
    sbasAlmYg BIT STRING (SIZE(15)),
GANSS-SAT-Info-Almanac-SBASecef-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...}

GANSS-Sat-Info-Nav ::= SEQUENCE {satId INTEGER (0..63), svHealth BIT STRING (SIZE(5)), iod BIT STRING (SIZE(10)), ganssClockModel GANSS-Clock-Model, ganssOrbitModel GANSS-Orbit-Model, ie-Extensions ProtocolExtensionContainer { { GANSS-Sat-Info-Nav-ExtIEs } } OPTIONAL, ...}

GANSS-Sat-Info-Nav-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...}

GANSS-SBAS-ID ::= ENUMERATED {waas, egnos, msas, gagan, ...}

GANSS-SBASclockModel ::= SEQUENCE {sbasTo BIT STRING (SIZE (13)), sbasAgfo BIT STRING (SIZE (12)), sbasAgf1 BIT STRING (SIZE (8)), ie-Extensions ProtocolExtensionContainer { { GANSS-SBASclockModel-ExtIEs } } OPTIONAL, ...}

GANSS-SBASclockModel-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...}
GANSS-Signal-ID ::= INTEGER(0..7,...)

GANSS-StatusHealth ::= ENUMERATED {
  udre-scale-1dot0,
  udre-scale-0dot75,
  udre-scale-0dot5,
  udre-scale-0dot3,
  udre-scale-0dot2,
  udre-scale-0dot1,
  no-data,
  invalid-data
}

GANSS-Time-ID ::= INTEGER(0..7,...)

GANSS-Time-Model ::= SEQUENCE {
  ganss-time-model-Ref-Time INTEGER(0..37799),
  ganss-t-a0 INTEGER(-2147483648.. 2147483647),
  ganss-t-a1 INTEGER(-8388608.. 8388607) OPTIONAL,
  ganss-t-a2 INTEGER(-64..63) OPTIONAL,
  gnsst-to-id ENUMERATED{gps,...,galileo,qzss,glonass},
  ganss-wk-number INTEGER(0..8191) OPTIONAL,
  ie-Extensions ProtocolExtensionContainer { { GANSS-Time-Model-ExtIEs } } OPTIONAL,
  ...
}

GANSS-Time-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-Transmission-Time ::= SEQUENCE {
  ganssDay INTEGER(0..8191) OPTIONAL,
  ganssTod INTEGER(0..86399),
  ie-Extensions ProtocolExtensionContainer { { GANSS-Transmission-Time-ExtIEs } } OPTIONAL,
  ...
}

GANSS-Transmission-Time-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-UTC-Model ::= SEQUENCE {
  a-one-utc BIT STRING (SIZE (24)),
  a-zero-utc BIT STRING (SIZE (32)),
  t-ot-utc BIT STRING (SIZE (8)),
  w-n-t-utc BIT STRING (SIZE (8)),
delta-t-ls-utc BIT STRING (SIZE (8)),
w-n-lsf-utc BIT STRING (SIZE (8)),
dn-utc BIT STRING (SIZE (8)),
delta-t-lsf-utc BIT STRING (SIZE (8)),
ie-Extensions ProtocolExtensionContainer { { GANSS-UTC-Model-ExtIEs } } OPTIONAL,

GANSS-UTC-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-UTCmodelSet1 ::= SEQUENCE {
  utcA0 BIT STRING (SIZE(16)),
  utcA1 BIT STRING (SIZE(13)),
  utcA2 BIT STRING (SIZE(7)),
  utcDeltaTls BIT STRING (SIZE(8)),
  utcTot BIT STRING (SIZE(16)),
  utcWNot BIT STRING (SIZE(13)),
  utcWNlssf BIT STRING (SIZE(8)),
  utcDN BIT STRING (SIZE(4)),
  utcDeltaTlsf BIT STRING (SIZE(8)),
  ie-Extensions ProtocolExtensionContainer { { GANSS-UTCmodelSet1-ExtIEs } } OPTIONAL,
  ...
}

GANSS-UTCmodelSet1-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-UTCmodelSet2 ::= SEQUENCE {
  nA BIT STRING (SIZE(11)),
  tauC BIT STRING (SIZE(32)),
  deltaUT1 GANSS-DeltaUT1 OPTIONAL,
  kp BIT STRING (SIZE(2)) OPTIONAL,
  ie-Extensions ProtocolExtensionContainer { { GANSS-UTCmodelSet2-ExtIEs } } OPTIONAL,
  ...
}

GANSS-UTCmodelSet2-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GANSS-UTCmodelSet3 ::= SEQUENCE {
  utcAlwnt BIT STRING (SIZE(24)),
  utcA0wnt BIT STRING (SIZE(32)),
  utcTot BIT STRING (SIZE(8)),
  utcWNt BIT STRING (SIZE(8)),
  utcDeltaTls BIT STRING (SIZE(8)),
  utcWNlssf BIT STRING (SIZE(8)),
  utcDN BIT STRING (SIZE(8)),
  ...
}

GANSS-UTCmodelSet3-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
utcDeltaTlsf BIT STRING (SIZE(8)),
utcStandardID BIT STRING (SIZE(3)),
ie-Extensions ProtocolExtensionContainer { { GANSS-UTCmodelSet3-ExtIEs } } OPTIONAL,
...

GANSS-UTCmodelSet3-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GapLength ::= INTEGER (1..14)
-- Unit slot

GapDuration ::= INTEGER (1..144,...)
-- Unit frame

GenericTrafficCategory ::= BIT STRING (SIZE (8))

GPS-Almanac ::= SEQUENCE {
  wn alm BIT STRING (SIZE (8)),
sat-info-almanac SAT-Info-Almanac,
sVGlobalHealth alm BIT STRING (SIZE (364)) OPTIONAL,
ie-Extensions ProtocolExtensionContainer { { GPS-Almanac-ExtIEs} } OPTIONAL,
...
}

GPS-Almanac-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-SAT-Info-Almanac-ExtItem CRITICALITY ignore EXTENSION SAT-Info-Almanac-ExtList PRESENCE optional},
  ...
}

GPS-Ionospheric-Model ::= SEQUENCE {
  alpha-zero-ionos BIT STRING (SIZE (8)),
  alpha-one-ionos BIT STRING (SIZE (8)),
  alpha-two-ionos BIT STRING (SIZE (8)),
  alpha-three-ionos BIT STRING (SIZE (8)),
  beta-zero-ionos BIT STRING (SIZE (8)),
  beta-one-ionos BIT STRING (SIZE (8)),
  beta-two-ionos BIT STRING (SIZE (8)),
  beta-three-ionos BIT STRING (SIZE (8)),
ie-Extensions ProtocolExtensionContainer { { GPS-Ionospheric-Model-ExtIEs} } OPTIONAL,
  ...
}

GPS-Ionospheric-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
GPS-Information ::= SEQUENCE (SIZE (0..maxNoGPSItems)) OF GPS-Information-Item
-- This IE shall be present if the Information Type Item IE indicates "GPS Information"

GPS-Information-Item ::= ENUMERATED {
  gps-navigation-model-and-time-recovery,
  gps-ionospheric-model,
  gps-utc-model,
  gps-almanac,
  gps-rt-integrity,
  ...
}

GPS-RealTime-Integrity ::= CHOICE {
  bad-satellites         GPSBadSat-Info-RealTime-Integrity,
  no-bad-satellites      NULL
}

GPSBadSat-Info-RealTime-Integrity ::= SEQUENCE {
  sat-info                SATInfo-RealTime-Integrity,
  ie-Extensions           ProtocolExtensionContainer { { GPSBadSat-Info-RealTime-Integrity-ExtIEs} } OPTIONAL,
  ...
}

GPSBadSat-Info-RealTime-Integrity-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

GPS-NavigationModel-and-TimeRecovery ::= SEQUENCE (SIZE (1..maxNoSat)) OF GPS-NavandRecovery-Item

GPS-NavandRecovery-Item ::= SEQUENCE {
  tx-tow-nav             INTEGER (0..1048575),
  sat-id-nav             SAT-ID,
  tlm-message-nav        BIT STRING (SIZE (14)),
  tlm-revdc-nav          BIT STRING (SIZE (2)),
  ho-word-nav            BIT STRING (SIZE (22)),
  w-n-nav                BIT STRING (SIZE (10)),
  ca-or-p-on-l2-nav      BIT STRING (SIZE (2)),
  user-range-accuracy-index-nav
  BIT STRING (SIZE (4)),
  sv-health-nav          BIT STRING (SIZE (6)),
  iodc-nav               BIT STRING (SIZE (10)),
  l2-p-dataflag-nav      BIT STRING (SIZE (1)),
  sf1-reserved-nav       BIT STRING (SIZE (87)),
  t-gd-nav               BIT STRING (SIZE (8)),
  t-oc-nav               BIT STRING (SIZE (8)),
  a-f-2-nav              BIT STRING (SIZE (8)),
  a-f-1-nav              BIT STRING (SIZE (16)),
  a-f-zero-nav           BIT STRING (SIZE (22)),
  c-rs-nav               BIT STRING (SIZE (16)),
  delta-n-nav            BIT STRING (SIZE (16)),
  m-zero-nav             BIT STRING (SIZE (32)),

c-uc-nav BIT STRING (SIZE (16)),
gps-e-nav BIT STRING (SIZE (32)),
c-us-nav BIT STRING (SIZE (16)),
a-sqrt-nav BIT STRING (SIZE (32)),
t-oe-nav BIT STRING (SIZE (16)),
fit-interval-flag-nav BIT STRING (SIZE (1)),
aodo-nav BIT STRING (SIZE (5)),
c-ic-nav BIT STRING (SIZE (16)),
omega-zero-nav BIT STRING (SIZE (32)),
c-is-nav BIT STRING (SIZE (16)),
i-zero-nav BIT STRING (SIZE (32)),
c-rc-nav BIT STRING (SIZE (16)),
gps-omega-nav BIT STRING (SIZE (32)),
omegadot-nav BIT STRING (SIZE (24)),
idot-nav BIT STRING (SIZE (14)),
spare-zero-fill BIT STRING (SIZE (20)),

ie-Extensions ProtocolExtensionContainer { { GPS-NavandRecovery-Item-ExtIEs} } OPTIONAL,

GPS-NavandRecovery-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  
...

}

GPS-RX-POS ::= SEQUENCE {
  latitudeSign ENUMERATED {north, south},
  latitude INTEGER (0..8388607),
  longitude INTEGER (-8388608..8388607),
  directionOfAltitude ENUMERATED {height, depth},
  altitude INTEGER (0..32767),
  iE-Extensions ProtocolExtensionContainer { { GPS-RX-POS-ExtIEs} } OPTIONAL,
  
...

}

GPS-RX-POS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  
...

}

GPS-Status-Health ::= ENUMERATED {
  udre-scale-1-dot0,
  udre-scale-0-dot75,
  udre-scale-0-dot5,
  udre-scale-0-dot3,
  udre-scale-0-dot1,
  no-data,
  invalid-data
}

GPSTOW ::= INTEGER (0..604799)
GPS-UTC-Model ::= SEQUENCE {
  a-one-utc     BIT STRING (SIZE (24)),
  a-zero-utc    BIT STRING (SIZE (32)),
  t-ot-utc      BIT STRING (SIZE (8)),
  delta-t-1s-utc BIT STRING (SIZE (8)),
  w-n-t-utc     BIT STRING (SIZE (8)),
  w-n-lsf-utc   BIT STRING (SIZE (8)),
  dn-utc        BIT STRING (SIZE (8)),
  delta-t-lsf-utc BIT STRING (SIZE (8)),
  ie-Extensions ProtocolExtensionContainer { { GPS-UTC-Model-ExtIEs} } OPTIONAL,
  ...
}

GPS-UTC-Model-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- ==============================================================
-- H
-- ==============================================================
HARQ-Info-for-E-DCH ::= ENUMERATED {
  rv0,
  rvtable
}

HARQ-MemoryPartitioning ::= CHOICE {
  implicit    HARQ-MemoryPartitioning-Implicit,
  explicit    HARQ-MemoryPartitioning-Explicit,
  ...
}

HARQ-MemoryPartitioning-Implicit ::= SEQUENCE {
  number-of-Processes INTEGER (1..8,...,12|14|16),
  ie-Extensions ProtocolExtensionContainer { { HARQ-MemoryPartitioning-Implicit-ExtIEs} } OPTIONAL,
  ...
}

HARQ-MemoryPartitioning-Implicit-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HARQ-MemoryPartitioning-Explicit ::= SEQUENCE {
  hARQ-MemoryPartitioningList HARQ-MemoryPartitioningList,
  ie-Extensions ProtocolExtensionContainer { { HARQ-MemoryPartitioning-Explicit-ExtIEs} } OPTIONAL,
  ...
}

HARQ-MemoryPartitioning-Explicit-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  -- The following IE may only be used in FDD, in MIMO dual stream transmission mode
  {ID id-HARQ-MemoryPartitioningInfoExtForMIMO CRITICALITY ignore EXTENSION HARQ-MemoryPartitioningInfoExtForMIMO PRESENCE optional},
  ...
}

ETSI
HARQ-MemoryPartitioningList ::= SEQUENCE (SIZE (1..maxNrOfHARQProcesses)) OF HARQ-MemoryPartitioningItem

HARQ-MemoryPartitioningInfoExtForMIMO ::= SEQUENCE (SIZE (4|6|8)) OF HARQ-MemoryPartitioningItem

HARQ-MemoryPartitioningItem ::= SEQUENCE {
  process-Memory-Size     ENUMERATED {
    hms800, hms1600, hms2400, hms3200, hms4000,
    hms4800, hms5600, hms6400, hms7200, hms8000,
    hms8800, hms9600, hms10400, hms11200, hms12000,
    hms12800, hms13600, hms14400, hms15200, hms16000,
    hms17600, hms19200, hms20800, hms22400, hms24000,
    hms25600, hms27200, hms28800, hms30400, hms32000,
    hms36000, hms40000, hms44000, hms48000, hms52000,
    hms56000, hms60000, hms64000, hms68000, hms72000,
    hms76000, hms80000, hms84000, hms88000, hms92000,
    hms96000, hms100000, hms104000, hms108000, hms112000,
    hms116000, hms120000, hms124000, hms128000, hms132000,
    hms144000, hms148000, hms152000, hms156000, hms160000,
    hms164000, hms168000, hms172000, hms176000, hms180000,
    hms184000, hms188000, hms192000, hms196000, hms200000,
    hms204000, hms208000, hms212000, hms216000, hms220000,
    hms224000, hms228000, hms232000, hms236000, hms240000,
    hms244000, hms248000, hms252000, hms256000, hms260000,
    hms264000, hms268000, hms272000, hms276000, hms280000,
    hms284000, hms288000, hms292000, hms296000, hms300000,
    hms304000,...},
  iE-Extensions      ProtocolExtensionContainer { { HARQ-MemoryPartitioningItem-ExtIEs } }   OPTIONAL,
  ...}

HARQ-MemoryPartitioningItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}

HARQ-Preamble-Mode ::= ENUMERATED {
  mode0,
  model
}

HARQ-Process-Allocation-2ms-EDCH ::= BIT STRING (SIZE(maxNrOfEDCHHARQProcesses2msEDCH))

HARQ-Preamble-Mode-Activation-Indicator ::= ENUMERATED {
  harqPreambleModeActivated
}

HSDPA-Capability ::= ENUMERATED {hsdpa-capable, hsdpa-non-capable}

HS-DSCHProvidedBitRate ::= SEQUENCE (SIZE (1..maxNrOfPriorityClasses)) OF HS-DSCHProvidedBitRate-Item

HS-DSCHProvidedBitRate-Item ::= SEQUENCE {
  schedulingPriorityIndicator   SchedulingPriorityIndicator,
  hS-DSCHProvidedBitRateValue   HS-DSCHProvidedBitRateValue,
  iE-Extensions      ProtocolExtensionContainer { { HS-DSCHProvidedBitRate-Item-ExtIEs } }   OPTIONAL,
  ...}

HS-DSCHProvidedBitRate-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}
HS-DSCHProvidedBitRateValue ::= INTEGER(0..16777215,...,16777216..256000000)
-- except for 7.68Mcps TDD Unit bit/s, Range 0..2\(^24\)-1..2\(^24\).256,000,000, Step 1
-- 7.68Mcps TDD Unit 2bit/s, Range 0..2\(^24\)-1..2\(^24\).256,000,000, Step 1

HS-DSCHProvidedBitRateValueInformation-For-CellPortion ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item

HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item ::= SEQUENCE{
  cellPortionID CellPortionID,
  hS-DSCHProvidedBitRateValue HS-DSCHProvidedBy
, iE-Extensions ProtocolExtensionContainer { {HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs} } OPTIONAL,
  ...
}

HS-DSCHProvidedBitRateValueInformation-For-CellPortion-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR-Item

HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR-Item ::= SEQUENCE{
  cellPortionLCRID CellPortionLCRID,
  hS-DSCHProvidedBitRateValue HS-DSCHProvidedBy
, iE-Extensions ProtocolExtensionContainer { {HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR-Item-ExtIEs} } OPTIONAL,
  ...
}

HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-DSCHRequiredPower ::= SEQUENCE (SIZE (1..maxNrOfPriorityClasses)) OF HS-DSCHRequiredPower-Item

HS-DSCHRequiredPower-Item ::= SEQUENCE {
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  hS-DSCHRequiredPowerValue HS-DSCHRequiredPowerValue,
  iE-Extensions ProtocolExtensionContainer { {HS-DSCHRequiredPower-Item-ExtIEs} } OPTIONAL,
  ...
}

HS-DSCHRequiredPower-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-DSCHRequiredPowerValue ::= INTEGER(0..1000)
  -- Unit %, Range 0..1000, Step 0.1%

HS-DSCHRequiredPowerPerUEInformation ::= SEQUENCE (SIZE (1..maxNrOfContextsOnUeList)) OF HS-DSCHRequiredPowerPerUEInformation-Item
HS-DSCHRequiredPowerPerUEInformation-Item ::= SEQUENCE {
  crNC-CommunicationContextID CRNC-CommunicationContextID,
  iE-Extensions ProtocolExtensionContainer { { HS-DSCHRequiredPowerPerUEInformation-Item-ExtIEs} }  OPTIONAL,
  ... }

HS-DSCHRequiredPowerPerUEInformation-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

HS-DSCHRequiredPowerPerUEWeight ::= INTEGER(0..100)
  -- Unit %, Range 0 ..100, Step 1%

HS-DSCHRequiredPowerValueInformation-For-CellPortion ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item

HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item ::= SEQUENCE{
  cellPortionID CellPortionID,
  hS-DSCHRequiredPowerValue HS-DSCHRequiredPower,
  iE-Extensions ProtocolExtensionContainer { { HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item-ExtIEs} }  OPTIONAL,
  ... }

HS-DSCHRequiredPowerValueInformation-For-CellPortion-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR-Item

HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR-Item ::= SEQUENCE{
  cellPortionLCRID CellPortionLCRID,
  hS-DSCHRequiredPowerValue HS-DSCHRequiredPower,
  iE-Extensions ProtocolExtensionContainer { { HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR-Item-ExtIEs} }  OPTIONAL,
  ... }

HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

HSDPA-Associated-PICH-Information ::= CHOICE {
  hsdpa-PICH-Shared-with-PCH HSDPA-PICH-Shared-with-PCH,
  hsdpa-PICH-notShared-with-PCH HSDPA-PICH-notShared-with-PCH,
  ... }

HSDPA-PICH-Shared-with-PCH ::= SEQUENCE {
  hsdpa-PICH-SharedPCH-ID CommonPhysicalChannelID,
HSDPA-PICH-notShared-with-PCH ::= SEQUENCE {
  hSDPA-PICH-notShared-ID CommonPhysicalChannelID,
  fdd-DL-Channelisation-CodeNumber FDD-DL-ChannelisationCodeNumber,
  pich-Power PICH-Power,
  pich-Mode PICH-Mode,
  sttd-Indicator STTD-Indicator,
}

HSDSCH-Common-System-InformationFDD ::= SEQUENCE {
  hsdsch-Common-Information HSDSCH-Common-Information OPTIONAL,
  commonMACFlow-Specific-Information CommonMACFlow-Specific-InfoList OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { HSDSCH-Common-System-InformationFDD-ExtIEs } }
}

HSDSCH-Common-System-InformationFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HSDSCH-Common-System-Information-ResponseFDD ::= SEQUENCE {
  hsSCCH-Specific-Information-ResponseFDD HSSCCH-Specific-InformationRespListFDD OPTIONAL,
  hARQ-MemoryPartitioning HARQ-MemoryPartitioning OPTIONAL,
  commonMACFlow-Specific-Info-Response CommonMACFlow-Specific-InfoList-Response OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { HSDSCH-Common-System-Information-ResponseFDD-ExtIEs } }
}

HSDSCH-Common-System-Information-ResponseFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HSDSCH-Common-Information ::= SEQUENCE {
  cCCH-PriorityQueue-Id PriorityQueue-Id,
  sRBI-PriorityQueue-Id PriorityQueue-Id,
  associatedCommon-MACFlow Common-MACFlow-ID,
  fACH-Measurement-Occasion-Cycle-Length-Coefficient FACH-Measurement-Occasion-Cycle-Length-Coefficient OPTIONAL,
  rACH-Measurement-Result RACH-Measurement-Result,
  bCCH-Specific-HSDSCH-RNTI-Information BCCH-Specific-HSDSCH-RNTI-Information,
  iE-Extensions ProtocolExtensionContainer { { HSDSCH-Common-Information-ExtIEs } }
}

HSDSCH-Common-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HSDSCH-FDD-Information ::= SEQUENCE {
hSDSCH-MACdFlows-Information
ueCapability-Info
mACHs-Reordering-Buffer-Size-for-RLC-UM
cqiFeedback-CycleK
cqiRepetitionFactor
-- This IE shall be present if the CQI Feedback Cycle k is greater than 0
ackNackRepetitionFactor
ackPowerOffset
hSSCh-PowerOffset
measurement-Power-Offset
iE-Extensions

HSDSCH-FDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-HARQ-Preamble-Mode           CRITICALITY ignore  EXTENSION HARQ-Preamble-Mode         PRESENCE optional}|
   { ID id-MIMO-ActivationIndicator     CRITICALITY reject EXTENSION MIMO-ActivationIndicator     PRESENCE optional}|
   { ID id-HSDSCH-MACdPDUSizeFormat    CRITICALITY reject EXTENSION HSDSCH-MACdPDUSizeFormat    PRESENCE optional}|
   { ID id-SixtyfourQAM-UsageAllowedIndicator CRITICALITY ignore EXTENSION SixtyfourQAM-UsageAllowedIndicator PRESENCE optional}|
   { ID id-UE-with-enhanced-HS-SCH-support-indicator CRITICALITY ignore EXTENSION NULL         PRESENCE optional}|
   { ID id-EnhancedHSServingCC-Abort    CRITICALITY reject EXTENSION EnhancedHSServingCC-Abort    PRESENCE optional}|
   { ID id-Single-Stream-MIMO-ActivationIndicator CRITICALITY reject EXTENSION Single-Stream-MIMO-ActivationIndicator PRESENCE optional},

HSDSCH-TDD-Information ::= SEQUENCE {
   hSDSCH-MACdFlows-Information
   ueCapability-Info
   mACHs-Reordering-Buffer-Size-for-RLC-UM
tDD-AckNack-Power-Offset
   iE-Extensions

HSDSCH-TDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-HSSICH-SIRTarget  CRITICALITY ignore   EXTENSION UL-SIR      PRESENCE  optional}|
   { ID id-HSSICH-TPC-StepSize  CRITICALITY ignore EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE  optional}|
   { ID id-HSDSCH-MACdPDUSizeFormat  CRITICALITY reject EXTENSION HSDSCH-MACdPDUSizeFormat PRESENCE optional}|
   { ID id-tSN-Length  CRITICALITY reject EXTENSION TSN-Length    PRESENCE  optional}|
   -- Applicable for 1.28Mcps TDD when using multiple frequencies
   { ID id-MIMO-ActivationIndicator CRITICALITY reject EXTENSION MIMO-ActivationIndicator PRESENCE  optional},

ETS
HSDSCH-Information-to-Modify ::= SEQUENCE {
  HSDSCH-MACdFlow-Specific-Info-to-Modify HSDSCH-MACdFlow-Specific-InfoList-to-Modify OPTIONAL,
  priorityQueueInfoToModify PriorityQueue-InfoList-to-Modify OPTIONAL,
  mACHsReordering-Buffer-Size-for-RLC-UM MACHsReorderingBufferSize-for-RLC-UM OPTIONAL,
  cQIFeedback-Cycle CQI-Feedback-Cycle OPTIONAL, -- For FDD only
  cQIRepetitionFactor CQI-RepetitionFactor OPTIONAL, -- For FDD only
  ackNackRepetitionFactor AckNack-RepetitionFactor OPTIONAL, -- For FDD only
  cQIPowerOffset CQI-Power-Offset OPTIONAL, -- For FDD only
  ackPowerOffset Ack-Power-Offset OPTIONAL, -- For FDD only
  nackPowerOffset Nack-Power-Offset OPTIONAL, -- For FDD only
  hSSCCH-PowerOffset HSSCCH-PowerOffset OPTIONAL, -- For FDD only
  measurement-Power-Offset Measurement-Power-Offset OPTIONAL, -- For FDD only
  MACHs-Reordering-Buffer-Size-for-RLC-UM MACHsReorderingBufferSize-for-RLC-UM OPTIONAL,
  CQI-Feedback-Cycle CQI-Feedback-Cycle OPTIONAL, -- For FDD only
  CQI-RepetitionFactor CQI-RepetitionFactor OPTIONAL, -- For FDD only
  AckNack-RepetitionFactor AckNack-RepetitionFactor OPTIONAL, -- For FDD only
  CQI-Power-Offset CQI-Power-Offset OPTIONAL, -- For FDD only
  Ack-Power-Offset Ack-Power-Offset OPTIONAL, -- For FDD only
  Nack-Power-Offset Nack-Power-Offset OPTIONAL, -- For FDD only
  HSSCCH-PowerOffset HSSCCH-PowerOffset OPTIONAL, -- For FDD only
  TDD-AckNack-Power-Offset TDD-AckNack-Power-Offset OPTIONAL, -- For TDD only
  iE-Extensions ProtocolExtensionContainer { HSDSCH-Information-to-Modify-ExtIEs } OPTIONAL,
}

HSDSCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-to-Modify

HSDSCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
  HSDSCH-MACdFlow-ID HSDSCH-MACdFlow-ID,
  allocationRetentionPriority AllocationRetentionPriority OPTIONAL,
  transportBearerRequestIndicator TransportBearerRequestIndicator,
  bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs } OPTIONAL,
}

HSDSCH-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-HARQ-Preamble-Mode CRITICALITY ignore EXTENSION HARQ-Preamble-Mode PRESENCE optional }|
  { ID id-HSSICH-SIRTarget CRITICALITY ignore EXTENSION UL-SIR PRESENCE optional }|
  { ID id-ueCapability-Info CRITICALITY ignore EXTENSION UE-Capability-Information PRESENCE optional }|
  { ID id-HSSICH-TPC-StepSize CRITICALITY ignore EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional }|
  { ID id-HS-PDSCH-Code-Change-Grant CRITICALITY ignore EXTENSION HS-PDSCH-Code-Change-Grant PRESENCE optional }|
  { ID id-MIMO-Mode-Indicator CRITICALITY reject EXTENSION MIMO-Mode-Indicator PRESENCE optional }|
  { ID id-HSDSCH-MACdPDUSizeFormat CRITICALITY reject EXTENSION HSDSCH-MACdPDUSizeFormat PRESENCE optional }|
  { ID id-SixtyfourQAM-UsageAllowedIndicator CRITICALITY reject EXTENSION SixtyfourQAM-UsageAllowedIndicator PRESENCE optional }|
  { ID id-EnhancedHSServingCC-Abort CRITICALITY reject EXTENSION EnhancedHSServingCC-Abort PRESENCE optional }|
  { ID id-UE-SupportIndicatorExtension CRITICALITY reject EXTENSION UE-SupportIndicatorExtension PRESENCE optional }|
  -- For FDD only
...
HSDSCH-MACdPDU-SizeFormat ::= ENUMERATED {
    indexedMACdPDU-Size,
    flexibleMACdPDU-Size
}

HSDSCH-MACdPDU-SizeCapability ::= ENUMERATED {
    indexedSizeCapable,
    flexibleSizeCapable
}

HSDSCH-Information-to-Modify-Unsynchronised ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info-to-Modify
        hsDSCH-MACdFlow-Specific-InfoList-to-Modify  OPTIONAL,
    priorityQueueInfoToModifyUnsynchronised
        PriorityQueue-InfoList-to-Modify-Unsynchronised  OPTIONAL,
    cqiPowerOffset
        CQI-Power-Offset  OPTIONAL, -- For FDD only
    ackPowerOffset
        Ack-Power-Offset  OPTIONAL, -- For FDD only
    nackPowerOffset
        Nack-Power-Offset  OPTIONAL, -- For FDD only
    hsscch-PowerOffset
        HSSCCH-PowerOffset  OPTIONAL, -- For FDD only
    tDDAckNackPowerOffset
        TDD-AckNack-Power-Offset  OPTIONAL, -- For TDD only
    iE-Extensions
        ProtocolExtensionContainer  { { HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs} }  OPTIONAL,
    ...
}

HSDSCH-Information-to-Modify-Unsynchronised-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-HARQ-Preamble-Mode    CRITICALITY ignore EXTENSION HARQ-Preamble-Mode PRESENCE optional}|
    { ID id-HSSICH-SIRTarget     CRITICALITY ignore EXTENSION UL-SIR PRESENCE optional}|
    -- Applicable to 1.28Mcps TDD only
    { ID id-ueCapability-Info    CRITICALITY reject EXTENSION UE-Capability-Information PRESENCE optional}|
    { ID id-HSSICH-TPC-StepSize   CRITICALITY reject EXTENSION TDD-TPC-UplinkStepSize-LCR PRESENCE optional}|
    -- Applicable to 1.28Mcps TDD only
    { ID id-MIMO-Mode-Indicator  CRITICALITY reject EXTENSION MIMO-Mode-Indicator PRESENCE optional }|
    { ID id-SixtyfourQAM-UsageAllowedIndicator  CRITICALITY reject EXTENSION SixtyfourQAM-UsageAllowedIndicator PRESENCE optional}|
    { ID id-EnhancedHSServingCC-Abort  CRITICALITY reject EXTENSION EnhancedHSServingCC-Abort PRESENCE optional}|
    { ID id-UE-SupportIndicatorExtension  CRITICALITY reject EXTENSION UE-SupportIndicatorExtension PRESENCE optional}|
    -- Applicable to FDD only
    ...
}

HSDSCH-FDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp
        hsDSCH-MACdFlow-Specific-InformationRespListFDD  OPTIONAL,
    HSSCCH-Specific-Information-ResponseFDD
        HSSCCH-Specific-InformationRespListFDD  OPTIONAL,
    HARQ-MemoryPartitioning
        HARQ-MemoryPartitioning  OPTIONAL,
    iE-Extensions
        ProtocolExtensionContainer  { { HSDSCH-FDD-Information-Response-ExtIEs} }  OPTIONAL,
    ...
}
HSDSCH-FDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-HARQ-Preamble-Mode-Activation-Indicator  CRITICALITY ignore  EXTENSION  HARQ-Preamble-Mode-Activation-Indicator  PRESENCE optional }
  { ID id-MIMO-N-M-Ratio  CRITICALITY ignore  EXTENSION  MIMO-N-M-Ratio  PRESENCE optional }
  { ID id-SixtyfourQAM-DL-UsageIndicator  CRITICALITY ignore  EXTENSION  SixtyfourQAM-DL-UsageIndicator  PRESENCE optional }
  { ID id-HSDSCH-TBSSizeTableIndicator  CRITICALITY ignore  EXTENSION  HSDSCH-TBSSizeTableIndicator  PRESENCE optional },
...
}

HS-DSCH-FDD-Secondary-Serving-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MIMO-ActivationIndicator  CRITICALITY reject  EXTENSION  MIMO-ActivationIndicator  PRESENCE optional }
  { ID id-Single-Stream-MIMO-ActivationIndicator  CRITICALITY reject  EXTENSION  Single-Stream-MIMO-ActivationIndicator  PRESENCE optional }
  { ID id-DiversityMode  CRITICALITY reject  EXTENSION  DiversityMode  PRESENCE optional },
...
}

HS-DSCH-FDD-Secondary-Serving-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MIMO-N-M-Ratio  CRITICALITY ignore  EXTENSION  MIMO-N-M-Ratio  PRESENCE optional }
...
}

HS-DSCH-FDD-Secondary-Serving-Information-To-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MIMO-Mode-Indicator  CRITICALITY reject  EXTENSION  MIMO-Mode-Indicator  PRESENCE optional }|
...
-- This IE shall be present if Diversity Mode IE is present and is not set to 'none'

{ID id-NonCellSpecificTxDiversity CRITICALITY reject EXTENSION NonCellSpecificTxDiversity PRESENCE optional},

...
HS-Secondary-Serving-cell-change-successful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  cause       Cause,
  iE-Extensions ProtocolExtensionContainer { { HS-Secondary-Serving-cell-change-successful-ExtIEs} } OPTIONAL,
  ...
}

HS-Secondary-Serving-cell-change-unsuccessful ::= SEQUENCE {
  cause       Cause,
  iE-Extensions ProtocolExtensionContainer { { HS-Secondary-Serving-cell-change-unsuccessful-ExtIEs} } OPTIONAL,
  ...
}

HS-Secondary-Serving-cell-change-unsuccessful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-DSCH-Secondary-Serving-Remove ::= NULL

HSDSCH-Paging-System-InformationFDD ::= SEQUENCE {
  paging-MACFlow-Specific-Information Paging-MACFlow-Specific-Information,
  hSSCCH-Power DL-Power,
  hSPDSCCH-Power DL-Power,
  number-of-PCH-transmission Number-of-PCH-transmission,
  transport-Block-Size-List Transport-Block-Size-List,
  iE-Extensions ProtocolExtensionContainer { { HSDSCH-Paging-System-InformationFDD-ExtIEs } } OPTIONAL,
  ...
}

HSDSCH-Paging-System-InformationFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HSDSCH-Paging-System-Information-ResponseFDD ::= SEQUENCE (SIZE (1..maxNrOfPagingMACFlow)) OF HSDSCH-Paging-System-Information-ResponseList

HSDSCH-Paging-System-Information-ResponseList ::= SEQUENCE {
  pagingMACFlow-ID Paging-MACFlow-ID,  
  bindingID BindingID OPTIONAL, 
  transportLayerAddress TransportLayerAddress OPTIONAL, 
  hSPDSCCH-Code-Index HSPDSCCH-Code-Index, 
  iE-Extensions ProtocolExtensionContainer { { HSDSCH-Paging-System-Information-ResponseList-ExtIEs } } OPTIONAL, 
  ...
}

HSDSCH-Paging-System-Information-ResponseList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HSDSCH-TDD-Information-Response ::= SEQUENCE {
  hsDSCH-MACdFlow-Specific-InformationResp HSDSCH-MACdFlow-Specific-InformationResp OPTIONAL,
hsSCCH-Specific-Information-ResponseTDD  
HSSCCH-Specific-InformationRespListTDD  OPTIONAL, -- Not Applicable to 1.28Mcps TDD or 7.68Mcps TDD
 hsSCCH-Specific-Information-ResponseTDDLCR  
HSSCCH-Specific-InformationRespListTDDLCR  OPTIONAL, -- Not Applicable to 3.84Mcps TDD or 7.68Mcps TDD, This HSSCCH Specific Information is for the first Frequency repetition, HSSCCH Specific Information for Frequency repetitions 2 and on, should be defined in MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR

hARQ-MemoryPartitioning  
HARQ-MemoryPartitioning  OPTIONAL, -- This HARQ Memory Partitioning Information is for the first Frequency repetition, HARQ Memory Partitioning Information for Frequency repetitions 2 and on, should be defined in MultipleFreq-HSPDSCH-InformationList-ResponseTDDLCR

iE-Extensions  
ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtIEs } }  OPTIONAL, ...
HSDSCH-MACdFlows-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ...

HSDSCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem

HSDSCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
  hsDSCH-MACdFlow-ID    HSDSCH-MACdFlow-ID,
  allocationRetentionPriority AllocationRetentionPriority,
  bindingID             BindingID     OPTIONAL,
  transportLayerAddress TransportLayerAddress  OPTIONAL,
  iE-Extensions          ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs} }  OPTIONAL,
  ...

HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-TnlQos    CRITICALITY ignore EXTENSION TnlQos PRESENCE optional },
  ...

HSDSCH-MACdFlows-to-Delete ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlows-to-Delete-Item

HSDSCH-MACdFlows-to-Delete-Item ::= SEQUENCE {
  hsDSCH-MACdFlow-ID        HSDSCH-MACdFlow-ID,
  iE-Extensions             ProtocolExtensionContainer { { HSDSCH-MACdFlows-to-Delete-Item-ExtIEs} }  OPTIONAL,
  ...

HSDSCH-MACdFlows-to-Delete-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...

HSDSCH-TBSizeTableIndicator ::= ENUMERATED {
  octet-aligned
}

HSSCCH-PowerOffset ::= INTEGER (0..255)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB

HSDSCH-Initial-Capacity-AllocationItem ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF HSDSCH-Initial-Capacity-AllocationItem

HSDSCH-Initial-Capacity-AllocationItem ::= SEQUENCE {
  schedulingPriorityIndicator SchedulingPriorityIndicator,
  maximum-MACdPDU-Size     MACdPDU-Size,
  hsDSCH-InitialWindowSize HSDSCH-InitialWindowSize,
  iE-Extensions             ProtocolExtensionContainer { { HSDSCH-Initial-Capacity-AllocationItem-ExtIEs } }  OPTIONAL,
  ...

HSDSCH-Initial-Capacity-AllocationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MaximumMACdPDU-SizeExtended    CRITICALITY ignore EXTENSION MAC-PDU-SizeExtended PRESENCE optional},

ETS
HSDSCH-InitialWindowSize ::= INTEGER (1..255)
-- Number of MAC-d PDUs.

HSDSCH-PreconfigurationInfo ::= SEQUENCE {
  setsOfHS-SCCH-Codes  SetsOfHS-SCCH-Codes,
  hARQ-MemoryPartitioning  HARQ-MemoryPartitioning,
  e-DCH-FDD-DL-Control-Channel-Information  E-DCH-FDD-DL-Control-Channel-Information  OPTIONAL,
  hARQ-Preamble-Mode-Activation-Indicator  HARQ-Preamble-Mode-Activation-Indicator  OPTIONAL,
  mIMO-N-M-Ratio  MIMO-N-M-Ratio  OPTIONAL,
  continuousPacketConnectivityHS-SCCH-less-Information-Response  ContinuousPacketConnectivityHS-SCCH-less-Information-Response  OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer  OPTIONAL,
} ...
HS-SCCH-PreconfiguredCodes ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HS-SCCH-PreconfiguredCodesItem

HS-SCCH-PreconfiguredCodesItem ::= SEQUENCE {
  hS-SCCH-CodeNumber HS-SCCH-CodeNumber,
  iE-Extensions ProtocolExtensionContainer { { HS-SCCH-PreconfiguredCodesItem-ExtIEs} } OPTIONAL,
  ...
}

HS-SCCH-PreconfiguredCodesItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-SCCH-CodeNumber ::= INTEGER (0..127)

HSSCCH-Specific-InformationRespListFDD ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Codes

HSSCCH-Codes ::= SEQUENCE {
  codeNumber INTEGER (0..127),
  iE-Extensions ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemFDD-ExtIEs} } OPTIONAL,
  ...
}

HSSCCH-Specific-InformationRespItemFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HSSCCH-Specific-InformationRespListTDD ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDD

HSSCCH-Specific-InformationRespItemTDD ::= SEQUENCE {
  timeslot TimeSlot,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  tDD-ChannelisationCode TDD-ChannelisationCode,
  hSSICH-Info HSSICH-Info,
  iE-Extensions ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDD-ExtIEs} } OPTIONAL,
  ...
}

HSSCCH-Specific-InformationRespItemTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HSSCCH-Specific-InformationRespListTDDLCSR ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDDLCSR

HSSCCH-Specific-InformationRespItemTDDLCSR ::= SEQUENCE {
  timeslotLCR TimeSlotLCR,
  midambleShiftLCR MidambleShiftLCR,
  ...
}
first-TDD-ChannelisationCode  TDD-ChannelisationCode, second-TDD-ChannelisationCode  TDD-ChannelisationCode, hSSICH-InfoLCR  HSSICH-InfoLCR, iE-Extensions  ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs } } OPTIONAL, ... } HSSCCH-Specific-InformationRespItemTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional}, -- Applicable for 1.28Mcps TDD when using multiple frequencies, this IE indicates the frequency which is actually used by the HS-SCCH ... } HSSCCH-Specific-InformationRespListTDD768 ::= SEQUENCE { {HSSCCH-Specific-InformationRespItemTDD768} (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDD768 } HSSCCH-Specific-InformationRespItemTDD768 ::= SEQUENCE { timeslot  TimeSlot, midambleShiftAndBurstType768  MidambleShiftAndBurstType768, tDD-ChannelisationCode768  TDD-ChannelisationCode768, hSSICH-Info768  HSSICH-Info768, iE-Extensions  ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDD768-ExtIEs } } OPTIONAL, ... } HSSCCH-Specific-InformationRespItemTDD768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional}, ... } HSSICH-Info ::= SEQUENCE { hsSICH-ID  HS-SICH-ID, timeslot  TimeSlot, midambleShiftAndBurstType  MidambleShiftAndBurstType, tDD-ChannelisationCode  TDD-ChannelisationCode, iE-Extensions  ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } } OPTIONAL, ... } HSSICH-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional}, ... } HSSICH-InfoLCR ::= SEQUENCE { hsSICH-ID  HS-SICH-ID, timeslotLCR  TimeSlotLCR, midambleShiftLCR  MidambleShiftLCR, tDD-ChannelisationCode  TDD-ChannelisationCode, iE-Extensions  ProtocolExtensionContainer { { HSSICH-Info-LCR-ExtIEs } } OPTIONAL, ... } HSSICH-Info-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { {ID id-UARFCNforNt CRITICALITY reject EXTENSION UARFCN PRESENCE optional}, ... }
HSSICH-Info768 ::= SEQUENCE {
  hsSICH-ID          HS-SICH-ID,
  timeslot          TimeSlot,
  midambleShiftAndBurstType768     MidambleShiftAndBurstType768,
  tDD-ChannelisationCode768      TDD-ChannelisationCode768,
  iE-Extensions    ProtocolExtensionContainer { { HSSICH-Info-768-ExtIEs } } OPTIONAL,
  ... }

HSSICH-Info-768-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... }

HS-SICH-Reception-Quality-Value ::= SEQUENCE {
  failed-HS-SICH    HS-SICH-failed,
  missed-HS-SICH    HS-SICH-missed,
  total-HS-SICH    HS-SICH-total,
  iE-Extensions    ProtocolExtensionContainer { { HS-SICH-Reception-Quality-Value-ExtIEs } } OPTIONAL,
  ... }

HS-SICH-Reception-Quality-Value-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 failed HS-SICH
  { ID id-Additional-failed-HS-SICH  CRITICALITY reject  EXTENSION  HS-SICH-failed   PRESENCE optional }|
  -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 missed HS-SICH
  { ID id-Additional-missed-HS-SICH  CRITICALITY reject  EXTENSION  HS-SICH-missed   PRESENCE optional }|
  -- Mandatory for 1.28Mcps TDD only, used when there are more than 20 total HS-SICH
  { ID id-Additional-total-HS-SICH   CRITICALITY reject  EXTENSION  HS-SICH-total   PRESENCE optional },
  ... }

HS-SICH-failed ::= INTEGER (0..20)
HS-SICH-missed ::= INTEGER (0..20)
HS-SICH-total ::= INTEGER (0..20)
HS-SICH-Reception-Quality-Measurement-Value ::= INTEGER (0..20)
-- According to mapping in [23]
HSDSCH-MACdFlow-ID ::= INTEGER (0..maxNrOfMACdFlows-1)
HSDSCH-RNTI ::= INTEGER (0..65535)

HS-PDSCH-FDD-Code-Information ::= SEQUENCE {
  number-of-HS-PDSCH-codes        INTEGER (0..maxHS-PDSCHCodeNrComp-1),
  hS-PDSCH-Start-code-number      INTEGER (0..maxHS-PDSCHCode-1),
  hs-PDSCH-Start-code-number      HS-PDSCH-Start-code-number OPTIONAL,
  -- Only included when number of HS-DSCH codes > 0
  iE-Extensions    ProtocolExtensionContainer { { HS-PDSCH-FDD-Code-Information-ExtIEs } } OPTIONAL,
HS-PDSCH-FDD-Code-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-PDSCH-Start-code-number ::= INTEGER (1..maxHS-PDSCHCodeNrComp-1)

HS-SCCH-ID ::= INTEGER (0..31)
HS-SICH-ID ::= INTEGER (0..31)

HS-SCCH-FDD-Code-Information ::= CHOICE {
  replace    HS-SCCH-FDD-Code-List,
  remove     NULL,
  ...
}

HS-SCCH-FDD-Code-List ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-FDD-Code-Information-Item

HS-SCCH-FDD-Code-Information-Item ::= INTEGER (0..maxHS-SCCHCodeNrComp-1)

HSSCCH-CodeChangeIndicator ::= ENUMERATED {
  hsSCCHCodeChangeNeeded
}

HSSCCH-Code-Change-Grant ::= ENUMERATED {
  changeGranted
}

HS-PDSCH-Code-Change-Indicator ::= ENUMERATED {
  hsPDSCHCodeChangeNeeded
}

HS-PDSCH-Code-Change-Grant ::= ENUMERATED {
  changeGranted
}

HSDSCH-Configured-Indicator ::= ENUMERATED {
  configured-HS-DSCH,
  no-configured-HS-DSCH
}

HS-DSCH-Serving-Cell-Change-Info ::= SEQUENCE {
  hspdsch-RL-ID     RL-ID,
  hSDSCH-FDD-Information   HSDSCH-FDD-Information OPTIONAL,
  hsdsch-RNTI      HSDSCH-RNTI,
  iE-Extensions     ProtocolExtensionContainer { { HS-DSCH-Serving-Cell-Change-Info-ExtIEs} } OPTIONAL,
  ...
}

HS-DSCH-Serving-Cell-Change-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
HS-DSCH-Serving-Cell-Change-Info-Response ::= SEQUENCE {
    hS-DSCH-serving-cell-choice  HS-DSCH-serving-cell-choice,
    iE-Extensions     ProtocolExtensionContainer { { HS-DSCH-serving-cell-informationResponse-ExtIEs} } OPTIONAL,
    ...
}

HS-DSCH-serving-cell-informationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-DSCH-serving-cell-choice ::= CHOICE {
    hS-serving-cell-change-successful  HS-serving-cell-change-successful,
    hS-serving-cell-change-unsuccessful  HS-serving-cell-change-unsuccessful,
    ...
}

HS-serving-cell-change-successful ::= SEQUENCE {
    hSDSCH-FDD-Information-Response  HSDSCH-FDD-Information-Response,
    iE-Extensions     ProtocolExtensionContainer { { HS-serving-cell-change-successful-ExtIEs} } OPTIONAL,
    ...
}

HS-serving-cell-change-successful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-serving-cell-change-unsuccessful ::= SEQUENCE {
    cause       Cause,
    iE-Extensions     ProtocolExtensionContainer { { HS-serving-cell-change-unsuccessful-ExtIEs} } OPTIONAL,
    ...
}

HS-serving-cell-change-unsuccessful-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-DSCH-DRX-Cycle-FACH ::= ENUMERATED {v4,v8,v16,v32,...}

HS-DSCH-RX-Burst-FACH ::= ENUMERATED {v1,v2,v4,v8,v16,...}

HSDSCH-FDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator  HSSCCH-CodeChangeIndicator OPTIONAL,
cqiFeedback-CycleK

CQI-Feedback-Cycle

OPTIONAL,

cqiRepetitionFactor

CQI-RepetitionFactor

OPTIONAL,

ackNackRepetitionFactor

AckNack-RepetitionFactor

OPTIONAL,

cqiPowerOffset

CQI-Power-Offset

OPTIONAL,

ackPowerOffset

Ack-Power-Offset

OPTIONAL,

nackPowerOffset

Nack-Power-Offset

OPTIONAL,

iE-Extensions

ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } }  OPTIONAL,

...
ETSI TS 125 433 V9.5.0 (2011-03)

1117

ETSI TS 25.433 version 9.5.0 Release 9

second-TDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
stdt-Indicator STTD-Indicator,
iE-Extensions ProtocolExtensionContainer { { HSDPA-PICH-notShared-with-PCHLCR-ExtIEs } } OPTIONAL,
...

HSDPA-PICH-notShared-with-PCHLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

HSDSCH-Common-System-InformationLCR ::= SEQUENCE {
hdsch-Common-InformationLCR HSDSCH-Common-InformationLCR OPTIONAL,
commonMACFlow-Specific-InformationLCR CommonMACFlow-Specific-InfoListLCR OPTIONAL,
common-H-RNTI-InformationLCR Common-H-RNTI-InformationLCR OPTIONAL,
sync-InformationLCR Sync-InformationLCR OPTIONAL,
tDD-AckNack-Power-Offset TDD-AckNack-Power-Offset OPTIONAL,
hSICH-SIRTarget UL-SIR OPTIONAL,
hSICH-TPC-StepSize TDD-TPC-UpLinkStepSize-LCR OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { HSDSCH-Common-System-InformationLCR-ExtIEs } } OPTIONAL,
...
}

HSDSCH-Common-System-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

HSDSCH-Common-System-Information-ResponseLCR ::= SEQUENCE {
hSSCCH-Specific-Information-ResponseLCR HSSCCH-Specific-InformationRespListLCR OPTIONAL,
HARQ-MemoryPartitioning HARQ-MemoryPartitioning OPTIONAL,
-- The HARQ Memory Partitioning Information is for the first Frequency repetition, HARQ Memory Partitioning Information for Frequency repetitions
2 and on, should be defined in MultipleFreq-HARQ-MemoryPartitioning-InformationList.
commonMACFlow-Specific-Info-ResponseLCR CommonMACFlow-Specific-InfoList-ResponseLCR OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { HSDSCH-Common-System-Information-ResponseLCR-ExtIEs } } OPTIONAL,
...
}

HSDSCH-Common-System-Information-ResponseLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

HSDSCH-Common-InformationLCR ::= SEQUENCE {
ccCCH-PriorityQueue-Id PriorityQueue-Id,
sRB1-PriorityQueue-Id PriorityQueue-Id,
associatedCommon-MACFlowLCR Common-MACFlow-ID-LCR,
...
}

3GPP TS 25.433 version 9.5.0 Release 9
fACH-Measurement-Occasion-Cycle-Length-Coefficient
OPTIONAL,

BCCH-Specific-HSDSCH-RNTI-InformationLCR
OPTIONAL,
iE-Extensions

ProtocolExtensionContainer {{ HSDSCH-Common-InformationLCR-ExtIEs }}
OPTIONAL,

HSDSCH-Common-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

HSDSCH-Paging-System-InformationLCR ::= SEQUENCE {
    paging-MACFlow-Specific-InformationLCR
        Paging-MACFlow-Specific-InformationLCR,
    hSSCCH-Power
        DL-Power
        OPTIONAL,
    hSPDSCH-Power
        DL-Power
        OPTIONAL,
    reception-Window-Size
        INTEGER (1..16)
        OPTIONAL,
    n-PCH
        INTEGER (1..8)
        OPTIONAL,
    paging-Subchannel-Size
        INTEGER (1..3)
        OPTIONAL,
    transport-Block-Size-List
        Transport-Block-Size-List
        OPTIONAL,
    iE-Extensions
        ProtocolExtensionContainer {{ HSDSCH-Paging-System-InformationLCR-ExtIEs }}
        OPTIONAL,
    ...}

HSDSCH-Paging-System-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

HSDSCH-Paging-System-Information-ResponseLCR ::= SEQUENCE {SIZE (1..maxNrOfPagingMACFlow)} OF HSDSCH-Paging-System-Information-ResponseListLCR

HSDSCH-Paging-System-Information-ResponseListLCR ::= SEQUENCE {
    pagingMACFlow-ID
        Paging-MACFlow-ID,
    bindingID
        BindingID
        OPTIONAL,
    transportLayerAddress
        TransportLayerAddress
        OPTIONAL,
    dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
        DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst,
    iE-Extensions
        ProtocolExtensionContainer {{ HSDSCH-Paging-System-Information-ResponseListLCR-ExtIEs }}
        OPTIONAL,
    ...}

HSDSCH-Paging-System-Information-ResponseListLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

HS-SCCH-ID-LCR ::= INTEGER (0..255)
HSSCCH-Specific-InformationRespListLCR ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHsLCR)) OF HSSCCH-Specific-InformationRespItemLCR

HSSCCH-Specific-InformationRespItemLCR ::= SEQUENCE {
    hS-SCCH-ID-LCR     HS-SCCH-ID-LCR,
    iE-Extensions  ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemLCR-ExtIEs } }
OPTIONAL,
...
}

HSSCCH-Specific-InformationRespItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

HS-DSCH-Semi-PersistentScheduling-Information-LCR ::= SEQUENCE {
    transport-Block-Size-List    Transport-Block-Size-List-LCR,
    repetition-Period-List-LCR    Repetition-Period-List-LCR,
    hS-DSCH-SPS-Reservation-Indicator  SPS-Reservation-Indicator    OPTIONAL,
    hS-DSCH-SPS-Operation-Indicator   HS-DSCH-SPS-Operation-Indicator,
    iE-Extensions        ProtocolExtensionContainer { { HS-DSCH-Semi-PersistentScheduling-Information-LCR-ExtIEs } }
OPTIONAL,
...
}

HS-DSCH-Semi-PersistentScheduling-Information-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Transport-Block-Size-List-LCR ::= SEQUENCE (SIZE (1..maxNoOfTBSs-Mapping-HS-DSCH-SPS)) OF Transport-Block-Size-Item-LCR

Transport-Block-Size-Item-LCR ::= SEQUENCE {
    transport-Block-Size-maping-Index-LCR  Transport-Block-Size-maping-Index-LCR,
    transport-Block-Size-Index-LCR    Transport-Block-Size-Index-LCR,
    iE-Extensions        ProtocolExtensionContainer { { Transport-Block-Size-Item-LCR-ExtIEs } }   OPTIONAL,
...
}

Transport-Block-Size-Item-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Transport-Block-Size-maping-Index-LCR ::= INTEGER (0..maxNoOfTBSs-Mapping-HS-DSCH-SPS-1)

Transport-Block-Size-Index-LCR ::= INTEGER (1..maxNoOfHS-DSCH-TBSsLCR)

Repetition-Period-List-LCR ::= SEQUENCE (SIZE (1..maxNoOfRepetition-Period-LCR)) OF Repetition-Period-Item-LCR

Repetition-Period-Item-LCR ::= SEQUENCE {
    repetitionPeriodIndex  RepetitionPeriodIndex,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength   RepetitionLength    OPTIONAL,
    iE-Extensions    ProtocolExtensionContainer { { Repetition-Period-Item-LCR-ExtIEs } }   OPTIONAL,
...
}

Repetition-Period-Item-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
RepetitionPeriodIndex ::= INTEGER (0..maxNoOfRepetitionPeriod-SPS-LCR-1)

SPS-Reservation-Indicator ::= ENUMERATED {
  reserve
}

HS-DSCH-SPS-Operation-Indicator ::= CHOICE {
  logicalChannellevel   LogicalChannellevel,
  priorityQueuelevel   PriorityQueuelevel,
  ...
}

LogicalChannellevel ::= BIT STRING (SIZE (16))

PriorityQueuelevel ::= BIT STRING (SIZE (8))
HS-SICH-InformationItem-for-HS-DSCH-SPS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-SICH-Mapping-Index ::= INTEGER (0..maxNoOf-HS-SICH-SPS-1)

HS-SICH-Type ::= CHOICE {
  HS-SCCH-Associated-HS-SICH    HS-SCCH-Associated-HS-SICH,
  Non-HS-SCCH-Associated-HS-SICH Non-HS-SCCH-Associated-HS-SICH,
  ...
}

HS-SCCH-Associated-HS-SICH ::= SEQUENCE {
  hsSICH-ID       HS-SICH-ID,
  extended-HS-SICH-ID     Extended-HS-SICH-ID   OPTIONAL,
  ...
}

Non-HS-SCCH-Associated-HS-SICH ::= SEQUENCE {
  non-HS-SCCH-Associated-HS-SICH-ID Non-HS-SCCH-Associated-HS-SICH-ID,
  ...
}

Non-HS-SCCH-Associated-HS-SICH-ID ::= INTEGER (0..255)

Initial-HS-PDSCH-SPS-Resource ::= SEQUENCE {
  repetitionPeriodIndex    RepetitionPeriodIndex, RepetitionLength OPTIONAL,
  repetitionLength         TDD-PhysicalChannelOffset,
  -- the IE is not used,
  hS-PDSCH-Offset          TDD-ChannelisationCode,
  timeslot-Resource-Related-Information NS-DCH-TimeslotResourceLCR,
  startCode                Transport-Block-Size-Index-LCR,
  endCode                  ModulationSPS-LCR,
  transport-Block-Size-Index Transport-Block-Size-Index-LCR,
  modulationType           ModulationSPS-LCR,
  hS-SICH-Mapping-Index    HS-SICH-Mapping-Index,
  iE-Extensions            ProtocolExtensionContainer { { Initial-HS-PDSCH-SPS-Resource-ExtIEs } } OPTIONAL,
  ...
}

Initial-HS-PDSCH-SPS-Resource-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MidambleShiftLCR CRITICALITY reject EXTENSION MidambleShiftLCR PRESENCE optional },
  -- mandatory for 1.28Mcps TDD.
  ...
}

HS-DSCH-TimeslotResourceLCR ::= BIT STRING (SIZE (5))

ModulationSPS-LCR ::= ENUMERATED {
Number-of-Processes-for-HS-DSCH-SPS ::= INTEGER (1..16)

Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  non-HS-SCCH-Associated-HS-SICH-InformationList Non-HS-SCCH-Associated-HS-SICH-InformationList,
  iE-Extensions ProtocolExtensionContainer {
    Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
...

Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

Non-HS-SCCH-Associated-HS-SICH-InformationList ::= SEQUENCE (SIZE (0..maxNoOfNon-HS-SCCH-Assosiated-HS-SICH)) OF Non-HS-SCCH-Associated-HS-SICH-InformationItem

Non-HS-SCCH-Associated-HS-SICH-InformationList-Ext ::= SEQUENCE (SIZE (0..maxNoOfNon-HS-SCCH-Assosiated-HS-SICH-Ext)) OF Non-HS-SCCH-Associated-HS-SICH-InformationItem

Non-HS-SCCH-Associated-HS-SICH-InformationItem ::= SEQUENCE {
  non-HS-SCCH-Assoicated-HS-SICH-ID Non-HS-SCCH-Associated-HS-SICH-ID,
  timeSlotLCR TimeSlotLCR,
  midambleShiftLCR MidambleShiftLCR,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  uARFCN UARFCN OPTIONAL,
  iE-Extensions ProtocolExtensionContainer {
    Non-HS-SCCH-Associated-HS-SICH-InformationItem-ExtIEs } } OPTIONAL,

Non-HS-SCCH-Associated-HS-SICH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  modify-non-HS-SCCH-Associated-HS-SICH-InformationList Modify-Non-HS-SCCH-Associated-HS-SICH-InformationList,
  iE-Extensions ProtocolExtensionContainer {
    Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
...

Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

ETS
ETSI

Modify-Non-HS-SCCH-Associated-HS-SICH-InformationList ::= SEQUENCE {SIZE (0..maxNoOfNon-HS-SCCH-Associated-HS-SICH)) OF Modify-Non-HS-SCCH-Associated-HS-SICH-InformationItem

Modify-Non-HS-SCCH-Associated-HS-SICH-InformationList-Ext ::= SEQUENCE {SIZE (0..maxNoOfNon-HS-SCCH-Associated-HS-SICH-Ext)) OF Modify-Non-HS-SCCH-Associated-HS-SICH-InformationItem

Modify-Non-HS-SCCH-Associated-HS-SICH-InformationItem ::= SEQUENCE {
  non-HS-SCCH-Associated-HS-SICH-ID Non-HS-SCCH-Associated-HS-SICH-ID,
  timeSlotLCR TimeSlotLCR OPTIONAL,
  midambleShiftLCR MidambleShiftLCR OPTIONAL,
  tdd-ChannelisationCode TDD-ChannelisationCode OPTIONAL,
  uARFCN UARFCN OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Modify-Non-HS-SCCH-Associated-HS-SICH-InformationItem-ExtIEs } } OPTIONAL,
...
}

Modify-Non-HS-SCCH-Associated-HS-SICH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}


Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqstItem ::= SEQUENCE {
  non-HS-SCCH-Associated-HS-SICH-ID Non-HS-SCCH-Associated-HS-SICH-ID,
...
}

MIMO-ReferenceSignal-InformationListLCR ::= SEQUENCE {SIZE (1..maxNrOfHSSCCHCodes)) OF HSSICH-ReferenceSignal-InformationLCR

HSSICH-ReferenceSignal-InformationLCR ::= SEQUENCE {
  midambleConfigurationLCR MidambleConfigurationLCR,
  midambleShift INTEGER {0..15},
  timeSlotLCR TimeSlotLCR,
  iE-Extensions ProtocolExtensionContainer { { HSSICH-ReferenceSignal-InformationLCR-ExtIEs } } OPTIONAL,
...
}

HSSICH-ReferenceSignal-InformationLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

HSSICH-ReferenceSignal-InformationModifyLCR ::= SEQUENCE {
  hSSICH-ReferenceSignal-InformationLCR HSSICH-ReferenceSignal-InformationLCR OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { HSSICH-ReferenceSignal-InformationModifyLCR-ExtIEs } } OPTIONAL,
...
}

HSSICH-ReferenceSignal-InformationModifyLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

ETSI
HSSICH-ReferenceSignal-InformationModifyLCR-RxtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

-- ==============================================================
-- I
-- ==============================================================

IB-OC-ID ::= INTEGER (1..16)

IB-SG-DATA ::= BIT STRING
  -- Contains SIB data fixed" or "SIB data variable" in segment as encoded in ref.[18].

IB-SG-POS ::= INTEGER (0..4094)
  -- Only even positions allowed

IB-SG-REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}

IB-Type ::= ENUMERATED {
  mIB,
  sB1,
  sB2,
  sIB1,
  sIB2,
  sIB3,
  sIB4,
  sIB5,
  sIB6,
  sIB7,
  not-Used-sIB8,
  not-Used-sIB9,
  not-Used-sIB10,
  sIB11,
  sIB12,
  sIB13,
  sIB13dot1,
  sIB13dot2,
  sIB13dot3,
  sIB13dot4,
  sIB14,
  sIB15,
  sIB15dot1,
  sIB15dot2,
  sIB15dot3,
  sIB15dot4,
  sIB16,
  ...
  sIB17,
  sIB15dot4,
  sIB18,
  sIB15dot5,
  sIB5bis,
  sIB11bis,
  sIB5bis,
  sIB15dot1bis,
IMB-Parameters ::= SEQUENCE {
  sub-Frame-Number Sub-Frame-Number,
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber OPTIONAL,
  ie-Extensions ProtocolExtensionContainer {{ IMB-Parameters-ExtIEs} } OPTIONAL,
  ...
}

IMB-Parameters-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Inactivity-Threshold-for-UE-DRX-Cycle ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256, v512}
-- Unit subframe

Inactivity-Threshold-for-UE-DTX-Cycle2 ::= ENUMERATED {v1, v4, v8, v16, v32, v64, v128, v256}
-- Unit E-DCH TTI

Inactivity-Threshold-for-UE-Grant-Monitoring ::= ENUMERATED {v0, v1, v2, v4, v8, v16, v32, v64, v128, v256}
-- Unit E-DCH TTI

InformationReportCharacteristics ::= CHOICE {
  onDemand NULL,
  periodic InformationReportCharacteristicsType-ReportPeriodicity,
  onModification InformationReportCharacteristicsType-OnModification,
  ...
}

InformationReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
  min ReportPeriodicity-Scaledmin,
  hours ReportPeriodicity-Scaledhour,
  ...
}

InformationReportCharacteristicsType-OnModification ::= SEQUENCE {
  information-thresholds InformationThresholds OPTIONAL,
  ie-Extensions ProtocolExtensionContainer {{ InformationReportCharacteristicsType-OnModification-ExtIEs} } OPTIONAL,
  ...
}

InformationReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
InformationThresholds ::= CHOICE {
  dgps                DGPSThresholds,
  ....
  dGANSSThreshold     DGANSSThreshold
}

InformationExchangeID ::= INTEGER (0..1048575)

InformationType ::= SEQUENCE {
  information-Type-Item  Information-Type-Item,
  gPSInformation         GPS-Information         OPTIONAL,
  -- The IE shall be present if the Information Type Item IE indicates "GPS Information".
  iE-Extensions          ProtocolExtensionContainer { { Information-Type-ExtIEs} }  OPTIONAL,
  ...
}

Information-Type-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  -- The following IE shall be present if the Information Type Item IE indicates "GANSS Information".
  { ID id-GANSS-Information   CRITICALITY ignore EXTENSION GANSS-Information   PRESENCE conditional }|
  -- The following IE shall be present if the Information Type Item IE indicates "DGANSS Corrections".
  { ID id-DGANSS-Corrections-Req CRITICALITY ignore EXTENSION DGANSS-Corrections-Req PRESENCE conditional },
  ...
}

Information-Type-Item ::= ENUMERATED {
  gpsinformation,
  dgpscorrections,
  gpsrxpos,
  ...
  gANSSInformation,
  dGANSSCorrections,
  gANSS-RX-Pos
}

Initial-DL-DPCH-TimingAdjustment-Allowed ::= ENUMERATED {
  initial-DL-DPCH-TimingAdjustment-Allowed
}

InnerLoopDLPCStatus ::= ENUMERATED {
  active,
  inactive
}

IPDL-Indicator ::= ENUMERATED {
  active,
  inactive
IPDL-FDD-Parameters ::= SEQUENCE {
    iP-SpacingFDD         ENUMERATED{sp5,sp7,sp10,sp15,sp20,sp30,sp40,sp50,...},
    iP-Length             ENUMERATED{len5, len10},
    seed                  INTEGER(0..63),
    burstModeParams       BurstModeParams  OPTIONAL,
    iP-Offset             INTEGER(0..9),
    iE-Extensions          ProtocolExtensionContainer { { IPDLFDDParameter-ExtIEs} } OPTIONAL,
    ...}

IPDLFDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

IPDL-TDD-Parameters ::= SEQUENCE {
    iP-SpacingTDD         ENUMERATED{sp30,sp40,sp50,sp70,sp100,...},
    iP-Start              INTEGER(0..4095),
    iP-Slot               INTEGER(0..14),
    iP-PCCPCH             ENUMERATED{switchOff-1-Frame,switchOff-2-Frames},
    burstModeParams       BurstModeParams  OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { IPDLTDDParameter-ExtIEs} } OPTIONAL,
    ...}

IPDL-TDD-Parameters-LCR ::= SEQUENCE {
    iP-SpacingTDD         ENUMERATED{sp30,sp40,sp50,sp70,sp100,...},
    iP-Start              INTEGER(0..4095),
    iP-Sub                ENUMERATED{first,second,both},
    burstModeParams       BurstModeParams  OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { IPDLTDDParameterLCR-ExtIEs} } OPTIONAL,
    ...}

IPMulticastIndication ::= SEQUENCE {
    transportLayerAddress  TransportLayerAddress,
    bindingID              BindingID,
    cFNOffset              INTEGER(0..255),
    iE-Extensions          ProtocolExtensionContainer { { IPMulticastIndication-ExtIEs} } OPTIONAL,
    ...}

IPMulticastIndication-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

IPMulticastDataBearerIndication ::= BOOLEAN
-- true: IP Multicast used, false: IP Multicast not used

BurstModeParams ::= SEQUENCE {
    burstStart             INTEGER(0..15),
    burstLength            INTEGER(10..25),
    ...}
burstFreq INTEGER(1..16),
...

IPDLTDDParameter-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

IPDLTDDParameterLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

IdleIntervalInformation ::= SEQUENCE {
  idleIntervalInfo-k INTEGER{none(0),two(2),three(3)} {0..3},
  idleIntervalInfo-offset INTEGER{0..7},
  ...
}

LimitedPowerIncrease ::= ENUMERATED {
  used,
  not-used
}

Local-Cell-ID ::= INTEGER (0..268435455)

LTGI-Presence ::= BOOLEAN
  -- True = the Long Term Grant Indicator shall be used within E-DCH grants

LCRTDD-Uplink-Physical-Channel-Capability ::= SEQUENCE {
  maxTimeslotsPerSubFrame INTEGER(1..6),
  maxPhysChPerTimeslot ENUMERATED {one,two,...,three,four},
  iE-Extensions ProtocolExtensionContainer { { LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs} } OPTIONAL,
  ...
}

LCRTDD-Uplink-Physical-Channel-Capability-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
MAC-DTX-Cycle-2ms ::= ENUMERATED {v1, v4, v5, v8, v10, v16, v20}
MAC-DTX-Cycle-10ms ::= ENUMERATED {v5, v10, v20}
MAC-ehs-Reset-Timer ::= ENUMERATED {v1, v2, v3, v4,...}
MACdPDU-Size ::= INTEGER (1..5000,...)
   -- In case of E-DCH value 8 and values not multiple of 8 shall not be used
MAC-PDU-SizeExtended ::= INTEGER (1..1504,...,1505)
   -- In case of E-DCH value 1 shall not be used
MAC-Inactivity-Threshold ::= ENUMERATED {v1, v2, v4, v8, v16, v32, v64, v128, v256, v512, infinity}
   -- Unit subframe
MACdPDU-SizeIndexlist ::= SEQUENCE (SIZE (1..maxNrOfMACdPDUIndexes)) OF MACdPDU-SizeIndexItem
MACdPDU-SizeIndexItem ::= SEQUENCE {
   sID          SID,
   macdPDU-Size  MACdPDU-Size,
   iE-Extensions ProtocolExtensionContainer { { MACdPDU-SizeIndexItemExtIEs} } OPTIONAL,
   ...
}
MACdPDU-SizeIndexItemExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   ...
}
MACdPDU-SizeIndexlisttoModify ::= SEQUENCE (SIZE (1..maxNrOfMACdPDUIndexes)) OF MACdPDU-SizeIndexItemtoModify
MACdPDU-SizeIndexItemtoModify ::= SEQUENCE {
   sID           SID,
   macdPDU-Size  MACdPDU-Size,
   iE-Extensions ProtocolExtensionContainer { { MACdPDU-SizeIndexItemtoModifyExtIEs} } OPTIONAL,
   ...
}
MACdPDU-SizeIndexItemtoModifyExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   ...
}
MACesGuaranteedBitRate ::= INTEGER (0..16777215,...,16777216..256000000)
MACes-Maximum-Bitrate-LCR ::= INTEGER (0..256000000,...)
MACeReset-Indicator ::= ENUMERATED {MACeReset}
MAChsGuaranteedBitRate ::= INTEGER (0..16777215,...,16777216..256000000)
MAChsReorderingBufferSize-for-RLC-UM ::= INTEGER (0..300,...)
   -- Unit kBytes
MAC-hsWindowSize ::= ENUMERATED {v4, v6, v8, v12, v16, v24, v32,..., v64, v128}  
-- For 1.28Mcps TDD when TSN length is configured to 9bits, ENUMERATED (32, 64, 96, 128, 160, 192, 256,...)

MAC-hsResetScheme ::= ENUMERATED {
  always,
  interNodeB-change
}

MaximumDL-PowerCapability ::= INTEGER(0..500)  
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

Max-Bits-MACe-PDU-non-scheduled ::= INTEGER(1..maxNrOfBits-MACe-PDU-non-scheduled)

Max-EDCH-Resource-Allocation-for-CCCH ::= ENUMERATED {v8, v12, v16, v24, v32, v40, v80, v120,...}

Max-Period-for-Collision-Resolution ::= INTEGER(8..24,...)

Max-TB-Sizes ::= SEQUENCE {
  maximum-TB-Size-cell-edge-users INTEGER (0..5000,...),
  maximum-TB-Size-other-users INTEGER (0..5000,...),
  iE-Extensions ProtocolExtensionContainer { {Max-TB-Sizes-ExtIEs} } OPTIONAL,
  ...
}

Max-TB-Sizes-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Maximum-Number-of-Retransmissions-For-E-DCH ::= INTEGER (0..15)

Maximum-Target-ReceivedTotalWideBandPower-LCR ::= INTEGER (0..621)  
-- mapping as for RTWP measurement value, as specified in [23]

MaximumTransmissionPower ::= INTEGER(0..500)  
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

MaxNrOfUL-DPDCHs ::= INTEGER (1..6)

MaxPRACH-MidambleShifts ::= ENUMERATED {
  shift4,
  shift8,
  ...
  shift16
}

Max-Set-E-DPDCHs ::= ENUMERATED {
  vN256, vN128, vN64, vN32, vN16, vN8, vN4, v2xN4, v2xN4, v2xN2plus2xN4, ...
  v2xM2plus2xM4
}
Max-UE-DTX-Cycle ::= ENUMERATED {
  v5, v10, v20, v40, v64, v80, v128, v160,
  ...
}

MBMS-Capability ::= ENUMERATED{
  mbms-capable,
  mbms-non-capable
}

MeasurementFilterCoefficient ::= ENUMERATED {k0, k1, k2, k3, k4, k5, k6, k7, k8, k9, k11, k13, k15, k17, k19,...}
-- Measurement Filter Coefficient to be used for measurement

MeasurementID ::= INTEGER (0..1048575)

Measurement-Power-Offset ::= INTEGER(-12 .. 26)
-- Actual value = IE value * 0.5

MeasurementRecoveryBehavior ::= NULL

MeasurementRecoveryReportingIndicator ::= NULL

MeasurementRecoverySupportIndicator ::= NULL

MessageStructure ::= SEQUENCE (SIZE (1..maxNrOfLevels)) OF
  SEQUENCE {
    iE-ID     ProtocolIE-ID,
    repetitionNumber  RepetitionNumber1  OPTIONAL,
    iE-Extensions   ProtocolExtensionContainer { {MessageStructure-ExtIEs} } OPTIONAL,
    ...
  }

MessageStructure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

MICH-CFN ::= INTEGER (0..4095)

MICH-Mode ::= ENUMERATED {
  v18, v36, v72, v144, ..., v16, v32, v64, v128
}
MidambleConfigurationLCR ::= ENUMERATED {v2, v4, v6, v8, v10, v12, v14, v16, ...}

MidambleConfigurationBurstType1And3 ::= ENUMERATED {v4, v8, v16}

MidambleConfigurationBurstType2 ::= ENUMERATED {v3, v6}

MidambleShiftAndBurstType ::= CHOICE {
  type1        SEQUENCE {
    midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
    midambleAllocationMode     CHOICE {
      defaultMidamble      NULL,
      commonMidamble      NULL,
      ueSpecificMidamble     MidambleShiftLong,
      ...  
    },
    ...  
  },
  type2        SEQUENCE {
    midambleConfigurationBurstType2  MidambleConfigurationBurstType2,
    midambleAllocationMode     CHOICE {
      defaultMidamble      NULL,
      commonMidamble      NULL,
      ueSpecificMidamble     MidambleShiftShort,
      ...  
    },
    ...  
  },
  type3        SEQUENCE {
    midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
    midambleAllocationMode     CHOICE {
      defaultMidamble      NULL,
      ueSpecificMidamble     MidambleShiftLong,
      ...  
    },
    ...  
  },
  ...  
}

MidambleShiftLong ::= INTEGER (0..15)

MidambleShiftShort ::= INTEGER (0..5)

MidambleShiftLCR ::= SEQUENCE {
  midambleAllocationMode MidambleAllocationMode,  
  midambleShift    MidambleShiftLong  OPTIONAL,  
  -- The IE shall be present if the Midamble Allocation Mode IE is set to "UE specific midamble".  
  midambleConfigurationLCR MidambleConfigurationLCR,  
  iE-Extensions   ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} }  OPTIONAL,  
  ...  
}

MidambleAllocationMode ::= ENUMERATED {
  defaultMidamble,
commonMidamble,
ueSpecificMidamble,
...}

MidambleShiftLCR-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= { }

MidambleShiftAndBurstType768 ::=  CHOICE {
type1        SEQUENCE {
midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
midambleAllocationMode     CHOICE {
defaultMidamble      NULL,
commonMidamble      NULL,
ueSpecificMidamble     MidambleShiftLong,
... }
},
... }
type2        SEQUENCE {
midambleConfigurationBurstType2-768 MidambleConfigurationBurstType2-768,
midambleAllocationMode     CHOICE {
defaultMidamble      NULL,
commonMidamble      NULL,
ueSpecificMidamble     MidambleShiftShort768,
... }
},
... }
type3        SEQUENCE {
midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
midambleAllocationMode     CHOICE {
defaultMidamble      NULL,
ueSpecificMidamble     MidambleShiftLong,
... }
},
... }

MidambleConfigurationBurstType2-768 ::=  ENUMERATED {v4, v8}

MidambleShiftShort768 ::=  INTEGER (0..7)

MIMO-ActivationIndicator ::= NULL

MIMO-Capability ::= ENUMERATED {
mimo-capable,
mimo-non-capable
}
MIMO-Mode-Indicator ::= ENUMERATED {
  activate,
  deactivate
}

MIMO-N-M-Ratio ::= ENUMERATED {v1-2, v2-3, v3-4, v4-5, v5-6, v6-7, v7-8, v8-9, v9-10, v1-1,...}

MIMO-PilotConfiguration ::= CHOICE {
  primary-and-secondary-CPICH CommonPhysicalChannelID,
  normal-and-diversity-primary-CPICH NULL,
  ...
}

MIMO-PilotConfigurationExtension ::= CHOICE {
  primary-and-secondary-CPICH NormalAndDiversityPrimaryCPICHContainer,
  normal-and-diversity-primary-CPICH PrimaryAndSecondaryCPICHContainer,
  ...
}

MIMO-PowerOffsetForS-CPICHCapability ::= ENUMERATED {
  s-CPICH-Power-Offset-Capable,
  s-CPICH-Power-Offset-Not-Capable
}

MinimumDL-PowerCapability ::= INTEGER(0..800)
-- Unit dBm, Range -30dBm .. 50dBm, Step +0.1dB

MinimumReducedE-DPDCH-GainFactor ::= ENUMERATED {m8-15, m11-15, m15-15, m21-15, m30-15, m42-15, m60-15, m84-15,...}

MinSpreadingFactor ::= ENUMERATED {
  v4,
  v8,
  v16,
  v32,
  v64,
  v128,
  v256,
  v512
}
-- TDD Mapping scheme for the minimum spreading factor 1 and 2: "256" means 1, "512" means 2

Modification-Period ::= ENUMERATED { v1280, v2560, v5120, v10240,...}

ModifyPriorityQueue ::= CHOICE {
  addPriorityQueue PriorityQueue-InfoItem-to-Add,
  modifyPriorityQueue PriorityQueue-InfoItem-to-Modify,
  deletePriorityQueue PriorityQueue-Id,
  ...
}

Modulation ::= ENUMERATED {
  qPSK,
  eightPSK,
MinUL-ChannelisationCodeLength ::= ENUMERATED {
  v4,
  v8,
  v16,
  v32,
  v64,
  v128,
  v256,
  ...
}

MultiplexingPosition ::= ENUMERATED {
  fixed,
  flexible
}

MACHs-ResetIndicator ::= ENUMERATED{
  mACHs-NotReset
}

ModulationMBSFN ::= ENUMERATED {
  qPSK,
  sixteenQAM,
  ...
}

MBSFN-CPICH-secondary-CCPCH-power-offset ::= INTEGER(-11..4,...)
  -- Unit dB, Step 1 dB, Range -11..4 dB.

ModulationPO-MBSFN ::= CHOICE {
  qPSK    NULL,
  sixteenQAM   MBSFN-CPICH-secondary-CCPCH-power-offset,
  ...
}

MBSFN-Only-Mode-Indicator ::= ENUMERATED {
  mBSFN-Only-Mode
}

MBSFN-Only-Mode-Capability ::= ENUMERATED {
  mBSFN-Only-Mode-capable,
  mBSFN-Only-Mode-non-capable
}

Multicarrier-Number ::= INTEGER (1..maxHSDPAFrequency)

MultipleFreq-HARQ-MemoryPartitioning-InformationList ::= SEQUENCE {SIZE (1..maxFrequencyinCell-1)} OF MultipleFreq-HARQ-MemoryPartitioning-InformationItem
  --Includes the 2nd through the max number of frequencies information repetitions.

MultipleFreq-HARQ-MemoryPartitioning-InformationItem ::= SEQUENCE {
  ...
hARQ-MemoryPartitioning, uARFCN,
OPTIONAL,
ProtocolExtensionContainer { { MultipleFreq-HARQ-MemoryPartitioning-InformationItem-ExtIEs} }

MultipleFreq-HARQ-MemoryPartitioning-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR ::= SEQUENCE (SIZE (1.. maxHSDPAFrequency-1)) OF MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR
--Includes the 2nd through the max number of frequency repetitions.

MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR ::= SEQUENCE{
  hsSCCH-Specific-Information-ResponseTDDLCR  KSSCCH-Specific-InformationRespListTDDLCR OPTIONAL,
  hARQ-MemoryPartitioning  HARQ-MemoryPartitioning OPTIONAL,
  uARFCN  -- This is the UARFCN for the second and beyond Frequency repetition.
  iE-Extensions  ProtocolExtensionContainer { { MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs } }

}

MultipleFreq-HSPDSCH-InformationItem-ResponseTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

Multi-Cell-Capability ::= ENUMERATED {
multi-Cell-Capable,
multi-Cell-non-Capable
}

Multi-Cell-Capability-Info ::= SEQUENCE {
multi-Cell-Capability  Multi-Cell-Capability,
  possible-Secondary-Serving-Cell-List  Possible-Secondary-Serving-Cell-List OPTIONAL,
iE-Extensions  ProtocolExtensionContainer { { Multi-Cell-Capability-Info-ExtIEs } }

}

Multi-Cell-Capability-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

}

Multicell-EDCH-Information ::= ProtocolIE-Single-Container { {Multicell-EDCH-InformationItem} }

Multicell-EDCH-InformationItem NBAP-PROTOCOL-IES ::= {
  { ID id-Multicell-EDCH-InformationItemIES CRITICALITY ignore TYPE Multicell-EDCH-InformationItemIES PRESENCE mandatory }
}

Multicell-EDCH-InformationItemIES ::= SEQUENCE {
dl-PowerBalancing-Information  DL-PowerBalancing-Information OPTIONAL,
  minimumReducedE-DPDCH-GainFactor  MinimumReducedE-DPDCH-GainFactor OPTIONAL,
  secondary-UL-Frequency-Activation-State  Secondary-UL-Frequency-Activation-State OPTIONAL,
}

ETS
Multicell-EDCH-InformationItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

Multicell-EDCH-RL-Specific-Information ::= ProtocolIE-Single-Container { { Multicell-EDCH-RL-Specific-InformationItem} }

Multicell-EDCH-RL-Specific-InformationItem NBAP-PROTOCOL-IES ::= {
{ ID id-Multicell-EDCH-RL-Specific-InformationItemIEs Criticality ignore TYPE Multicell-EDCH-RL-Specific-InformationItemIEs
  Presence mandatory }
}

Multicell-EDCH-RL-Specific-InformationItemIEs::= SEQUENCE {
  extendedPropagationDelay  ExtendedPropagationDelay  OPTIONAL,
  primary-CPICH-Usage-for-Channel-Estimation  Primary-CPICH-Usage-for-Channel-Estimation  OPTIONAL,
  secondary-CPICH-Information  CommonPhysicalChannelID  OPTIONAL,
  secondary-CPICH-Information-Change  Secondary-CPICH-Information-Change  OPTIONAL,
  e-AGCH-PowerOffset  E-AGCH-PowerOffset  OPTIONAL,
  e-RGCH-PowerOffset  E-RGCH-PowerOffset  OPTIONAL,
  e-HICH-PowerOffset  E-HICH-PowerOffset  OPTIONAL,
  dLReferencePower  DL-Power  OPTIONAL,
  e-DCH-DL-Control-Channel-Grant  NULL  OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer { { Multicell-EDCH-RL-Specific-InformationItemIEs-ExtIEs } } OPTIONAL,
...

Multicell-EDCH-RL-Specific-InformationItemIEs-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...

MIMO-SFMode-For-HSPDSCHDualStream ::= ENUMERATED {
  sF1,
  sF1SF16
}

Nack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1
NCyclesPerSPNperiod ::= ENUMERATED {
  v1,
  v2,
  v4,
  v8,
  ...,
  v16,
NRepetitionsPerCyclePeriod ::= INTEGER (2..10)
N-INSYNC-IND ::= INTEGER (1..256)
N-OUTSYNC-IND ::= INTEGER (1..256)
N-PROTECT ::= INTEGER (0..7)

NeighbouringCellMeasurementInformation ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
  CHOICE {
    neighbouringFDDCellMeasurementInformation NeighbouringFDDCellMeasurementInformation, -- FDD only
    neighbouringTDDCellMeasurementInformation NeighbouringTDDCellMeasurementInformation,
    -- Applicable to 3.84Mcps TDD only
    ...,
    extension-neighbouringCellMeasurementInformation Extension-neighbouringCellMeasurementInformation
  }


Extension-neighbouringCellMeasurementInformationIE NBAP-PROTOCOL-IES ::= {
  { ID id-neighbouringTDDCellMeasurementInformationLCR CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformationLCR PRESENCE mandatory } | -- Applicable to 1.28Mcps TDD only
  { ID id-neighbouringTDDCellMeasurementInformation768 CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformation768 PRESENCE mandatory }, -- Applicable to 7.68Mcps TDD only
  ...
}

NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {
  uC-Id        UC-Id,
  uARFCN        UARFCN,
  primaryScramblingCode PrimaryScramblingCode,
  iE-Extensions ProtocolExtensionContainer { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs} } OPTIONAL,
  ...
}

NeighbouringFDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
  uC-Id        UC-Id,
  uARFCN        UARFCN,
  cellParameterID CellParameterID,
  timeSlot       TimeSlot OPTIONAL,
  midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs} } OPTIONAL,
  ...
}
NeighbouringTDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    
    
}

NeighbouringTDDCellMeasurementInformationLCR ::= SEQUENCE {
    uC-Id        UC-Id,
    uARFCN        UARFCN,
    cellParameterID      CellParameterID,
    timeSlotLCR       TimeSlotLCR OPTIONAL,
    midambleShiftLCR     MidambleShiftLCR OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs} } OPTIONAL,
    
}

NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    
    
}

NeighbouringTDDCellMeasurementInformation768 ::= SEQUENCE {
    uC-Id        UC-Id,
    uARFCN        UARFCN,
    cellParameterID      CellParameterID,
    timeSlot       TimeSlot      OPTIONAL,
    midambleShiftAndBurstType768  MidambleShiftAndBurstType768  OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformation768Item-ExtIEs} } OPTIONAL,
    
}

NeighbouringTDDCellMeasurementInformation768Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    
    
}

NonCellSpecificTxDiversity ::= ENUMERATED {
    txDiversity,
    
}

Non-Serving-RL-Preconfig-Setup ::= SEQUENCE {
    new-non-serving-RL-selection New-non-serving-RL-setup-selection,
    iE-Extensions      ProtocolExtensionContainer { {Non-Serving-RL-Preconfig-Setup-ExtIEs} } OPTIONAL,
    
}

Non-Serving-RL-Preconfig-Setup-ExtIEs NBAP-PROTOCOL-EXTENSION::= {
    
    
}

Additional-E-DCH-Non-Serving-RL-Preconfiguration-Setup ::= NULL
New-non-serving-RL-setup-selection ::= CHOICE {
  new-Serving-RL-in-NodeB     NULL,  
  new-Serving-RL-Not-in-NodeB  NULL,  
  new-Serving-RL-in-or-Not-in-NodeB  NULL,  
  ...  
}

Non-Serving-RL-Preconfig-Info ::= SEQUENCE {
  new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-A E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,  
  new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-B E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,  
  new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-C E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,  
  iE-Extensions           ProtocolExtensionContainer { {Non-Serving-RL-Preconfig-Info-ExtIEs} } OPTIONAL,  
  ...  
}

Non-Serving-RL-Preconfig-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}

Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList ::= SEQUENCE(SIZE(1.. maxNrOfEDCH-1)) OF SEQUENCE {
  new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-A E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,  
  new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-B E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,  
  new-non-serving-RL-E-DCH-FDD-DL-Control-Channel-Information-C E-DCH-FDD-DL-Control-Channel-Information OPTIONAL,  
  iE-Extensions           ProtocolExtensionContainer { { Additional-E-DCH-New-non-serving-RL-E-DCH-FDD-DL-Control-Channel-InfoList-ExtIEs} } OPTIONAL,  
  ...  
}

  ...  
}

NI-Information ::= SEQUENCE (SIZE (1..maxNrOfNIs)) OF Notification-Indicator  
Notification-Indicator ::= INTEGER (0..65535)  
NodeB-CommunicationContextID ::= INTEGER (0..1048575)  
NormalAndDiversityPrimaryCPICHContainer ::= SEQUENCE {
  iE-Extensions           ProtocolExtensionContainer { { NormalAndDiversityPrimaryCPICHContainer-ExtIEs} } OPTIONAL,  
  ...  
}

NormalAndDiversityPrimaryCPICHContainer-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}

NotificationIndicatorLength ::= ENUMERATED {  
  ...  
}
NumberOfReportedCell Portions ::= INTEGER (1..maxNrOfCell PortionsPerCell,...)
NumberOfReportedCell Portions LCR ::= INTEGER (1..maxNrOfCell PortionsPerCellLCR,...)
Number-of-PCCH-transmission ::= INTEGER (1..5)
NSubCyclesPerCyclePeriod ::= INTEGER (1..16,...)
N-E-UCCH ::= INTEGER (1..12)
N-E-UCCH LCR ::= INTEGER (1..8)
Number-Of-Supported-Carriers ::= ENUMERATED {
  one-one-carrier,
  one-three-carrier,
  three-three-carrier,
  one-six-carrier,
  three-six-carrier,
  six-six-carrier,
  ...
}
NumHS-SCCH-Codes ::= INTEGER (1..maxNrOfHSSCCHCodes)
NoOfTargetCell HS-SCCH-Order ::= INTEGER (1..30)

-- ---------------------------------------------------------------
-- O
-- ---------------------------------------------------------------

Out-of-Synchronization-Window ::= ENUMERATED {
  ms40,
  ms80,
  ms160,
  ms320,
  ms640,
  ...
}
-- ---------------------------------------------------------------
-- P
-- ---------------------------------------------------------------
PagingIndicatorLength ::= ENUMERATED {
  v2,
  v4,
  v8,
...}

Paging-MACFlow-ID ::= INTEGER (0..maxNrOfPagingMACFlow-1)

PayloadCRC-PresenceIndicator ::= ENUMERATED {
  crc-Included,              
  crc-Notincluded,           
...
}

PCCPCH-Power ::= INTEGER (-150..400,...)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB

PDSCH-ID ::= INTEGER (0..255)

PDSCH-ID768 ::= INTEGER (0..511)

PDSCHSet-ID ::= INTEGER (0..255)

PICH-Mode ::= ENUMERATED {
  v18,                
  v36,                
  v72,                
  v144,               
...
}

PICH-Power ::= INTEGER (-10..5)
-- Unit dB, Range -10dB .. +5dB, Step +1dB

Paging-MACFlows-to-DeleteFDD ::= SEQUENCE (SIZE (1.. maxNrOfPagingMACFlow)) OF Paging-MACFlows-to-DeleteFDD-Item

Paging-MACFlows-to-DeleteFDD-Item ::= SEQUENCE {
  paging-MACFlow-ID        Paging-MACFlow-ID,            
  iE-Extensions         ProtocolExtensionContainer { { Paging-MACFlows-to-DeleteFDD-Item-ExtIEs} } 
    OPTIONAL,       
...
}

Paging-MACFlows-to-DeleteFDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...}

Paging-MACFlow-Specific-Information ::= SEQUENCE (SIZE (1.. maxNrOfPagingMACFlow)) OF Paging-MAC-Flow-Specific-Information-Item

Paging-MAC-Flow-Specific-Information-Item ::= SEQUENCE {
  paging-MACFlow-Id        Paging-MACFlow-ID,            
  hSDPA-associated-PICH-Info HSDPA-Associated-PICH-Information,
bindingID            BindingID          OPTIONAL,
transportLayerAddress  TransportLayerAddress OPTIONAL,
tnl-qos               TnlQos          OPTIONAL,
toAWS                 ToAWS,
toAWE                 ToAWE,
paging-MACFlow-PriorityQueue-Information Paging-MACFlow-PriorityQueue-Information OPTIONAL,
iE-Extensions       ProtocolExtensionContainer { { Paging-MAC-Flow-Specific-Information-Item-ExtIEs } }
OPTIONAL,
...

Paging-MAC-Flow-Specific-Information-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-TransportBearerRequestIndicator CRITICALITY ignore EXTENSION TransportBearerRequestIndicator PRESENCE optional},
-- This IE should not be contained if the MAC flow is setup in procedure, and it should be contained if the MAC flow is modified in procedure.
...
}
Paging-MACFlow-PriorityQueue-Information ::= SEQUENCE (SIZE (1..maxNrOfpagingMACQueues)) OF Paging-MACFlow-PriorityQueue-Item
Paging-MACFlow-PriorityQueue-Item ::= SEQUENCE {
  priority-Queue-Information-for-Enhanced-PCH Priority-Queue-Information-for-Enhanced-FACH-PCH,
iE-Extensions       ProtocolExtensionContainer { { Paging-MACFlow-PriorityQueue-Item-ExtIEs } }
  OPTIONAL,
...
}
Paging-MACFlow-PriorityQueue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Pattern-Sequence-Identifier ::= INTEGER (1.. maxNrOfDCHMeasurementOccasionPatternSequence)
PhysicalChannelID-for-CommonERNTI-RequestedIndicator ::= ENUMERATED {
  requested
}
PLCCHsequenceNumber ::= INTEGER (0..14)
PLCCHinformation ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  sequenceNumber    PLCCHsequenceNumber,
  iE-Extensions     ProtocolExtensionContainer { { PLCCHinformation-ExtIEs} }
  OPTIONAL,
...
}
PLCCHinformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
Possible-Secondary-Serving-Cell-List ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF Possible-Secondary-Serving-Cell
Possible-Secondary-Serving-Cell ::= SEQUENCE {
  local-Cell-ID    Local-Cell-ID,
  iE-Extensions     ProtocolExtensionContainer { { Possible-Secondary-Serving-Cell-ExtIEs } }
  OPTIONAL,
Possible-Secondary-Serving-Cell-ExtIEs : NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PowerAdjustmentType ::= ENUMERATED {
  none,
  common,
  individual
}

PowerOffset ::= INTEGER (0..24)
-- PowerOffset = offset * 0.25
-- Unit dB, Range 0dB .. +6dB, Step +0.25dB

PowerOffsetForSecondaryCPICHforMIMO ::= INTEGER (-6..0)
-- Unit dB, Range -6dB .. 0dB, Step +1dB

PowerRaiseLimit ::= INTEGER (0..10)

PRACH-Midamble ::= ENUMERATED {
  inverted,
  direct,
  ...
}

PRC ::= INTEGER (-2047..2047)
--pseudo range correction; scaling factor 0.32 meters

PRCDeviation ::= ENUMERATED {
  one,
  two,
  five,
  ten,
  ...
}

PrecodingWeightSetRestriction ::= ENUMERATED {
  preferred,
  not-preferred
}

PreambleSignatures ::= BIT STRING {
  signature15(0),
  signature14(1),
  signature13(2),
  signature12(3),
  signature11(4),
  signature10(5),
  signature9(6),
  signature8(7),
  signature7(8),
  ...
signature6(9),
signature5(10),
signature4(11),
signature3(12),
signature2(13),
signature1(14),
signature0(15)
} (SIZE (16))

PreambleThreshold ::= INTEGER (0..72)
-- 0= -36.0dB, 1= -35.5dB, ... , 72= 0.0dB

PredictedSFNSPNDeviationLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip

PredictedTUTRANGPSDeviationLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip

Pre-emptionCapability ::= ENumerated {
  shall-not-trigger-pre-emption,
  may-trigger-pre-emption
}

Pre-emptionVulnerability ::= ENumerated {
  not-pre-emptable,
  pre-emptable
}

PrimaryAndSecondaryCPICHContainer ::= SEQUENCE {
  power-Offset-For-Secondary-CPICH-for-MIMO  PowerOffsetForSecondaryCPICHforMIMO,
  iE-Extensions      ProtocolExtensionContainer { { PrimaryAndSecondaryCPICHContainer-ExtIEs} } OPTIONAL,
  ...
}

PrimaryAndSecondaryCPICHContainer-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PrimaryCPICH-Power ::= INTEGER(-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm

Primary-CPICH-Usage-for-Channel-Estimation ::= ENumerated {
  primary-CPICH-may-be-used,
  primary-CPICH-shall-not-be-used
}

PrimaryScramblingCode ::= INTEGER (0..511)

PriorityLevel ::= INTEGER (0..15)
-- 0 = spare, 1 = highest priority, ...14 = lowest priority and 15 = no priority

Priority-Queue-Information-for-Enhanced-FACH-PCH ::= SEQUENCE {
  priorityQueue-Id     PriorityQueue-Id,
schedulingPriorityIndicator  SchedulingPriorityIndicator,
t1  T1,
mAC-ehs-Reset-Timer  MAC-ehs-Reset-Timer,
-- shall be ignored in case of Enhanced PCH
discardTimer  DiscardTimer  OPTIONAL,
mAC-haWindowSize  MAC-haWindowSize,
maximum-MACcPDU-Size  MAC-PDU-SizeExtended,
iE-Extensions  ProtocolExtensionContainer { { Priority-Queue-Information-for-Enhanced-FACH-PCH-ExtIEs } }
OPTIONAL,
...

Priority-Queue-Information-for-Enhanced-FACH-PCH-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...,
}

PriorityQueue-Id  ::=  INTEGER  {0..maxNrOfPriorityQueues-1}

PriorityQueue-InfoList  ::=  SEQUENCE  {SIZE (1..maxNrOfPriorityQueues)) OF PriorityQueue-InfoItem

PriorityQueue-InfoItem  ::=  SEQUENCE {
  priorityQueueId  PriorityQueue-Id,
  associatedHSDSCH-MACdFlow  HSDSCH-MACdFlow-ID,
  schedulingPriorityIndicator  SchedulingPriorityIndicator,
  t1  T1,
  discardTimer  DiscardTimer  OPTIONAL,
mAC-haWindowSize  MAC-haWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
mAC-hsWindowSize  MAC-hsWindowSize,
iE-Extensions ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Add-ExtIEs} } OPTIONAL,
... 
}

PriorityQueue-InfoItem-to-Add-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-MaximumMACdPDU-SizeExtended CRITICALITY reject EXTENSION MAC-PDU-SizeExtended PRESENCE optional} |
{ ID id-DL-RLC-PDU-Size-Format CRITICALITY ignore EXTENSION DL-RLC-PDU-Size-Format PRESENCE optional},
...
}

PriorityQueue-InfoItem-to-Modify ::= SEQUENCE {
  priorityQueueId PriorityQueue-Id,
  schedulingPriorityIndicator SchedulingPriorityIndicator OPTIONAL,
  t1 T1 OPTIONAL,
  discardTimer DiscardTimer OPTIONAL,
  mAChsGuaranteedBitRate MAChsGuaranteedBitRate OPTIONAL,
  macdPDU-Size-Index-to-Modify MACdPDU-Size-Indexlist-to-Modify OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { PriorityQueue-InfoItem-to-Modify-ExtIEs} } OPTIONAL,
...
}

PriorityQueue-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-MaximumMACdPDU-SizeExtended CRITICALITY reject EXTENSION MAC-PDU-SizeExtended PRESENCE optional} |
{ ID id-DL-RLC-PDU-Size-Format CRITICALITY ignore EXTENSION DL-RLC-PDU-Size-Format PRESENCE optional},
...
}

PriorityQueue-InfoList-to-Modify- Unsynchronised ::= SEQUENCE (SIZE (1..maxNrOfPriorityQueues)) OF PriorityQueue-InfoItem-to-Modify- Unsynchronised

PrimaryCCPCH-RSCP ::= INTEGER (0..91)
-- Mapping of non-negative values according to [23]
PrimaryCCPCH-RSCP-Delta ::= INTEGER (-5..-1,...)
-- Mapping of negative values according to [23]
PropagataionDelay ::= INTEGER (0..255)
PRXdes-base ::= INTEGER (-112..-50)
-- Unit: dBm, step size 1

SCH-TimeSlot ::= INTEGER (0..6)

PunctureLimit ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100%
-- 0 is not applicable for E-DPCH

PUSCH-ID ::= INTEGER (0..255)

UE-Selected-MBMS-Service-Information ::= CHOICE {
    none       NULL,
    selected-MBMS-Service Selected-MBMS-Service,
    ...
}

Selected-MBMS-Service ::= SEQUENCE {
    selected-MBMS-Service-List Selected-MBMS-Service-List,
    iE-Extensions                  ProtocolExtensionContainer { { Selected-MBMS-Service-ExtIEs} } OPTIONAL,
    ...
}

Selected-MBMS-Service-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Selected-MBMS-Service-List ::= SEQUENCE (SIZE (1.. maxMBMSServiceSelect)) OF Selected-MBMS-Service-Item

Selected-MBMS-Service-Item ::= SEQUENCE {
    selected-MBMS-Service-TimeSlot-Information-LCR Selected-MBMS-Service-TimeSlot-Information-LCR OPTIONAL,
    MBMS-Service-TDM-Information                  MBMS-Service-TDM-Information OPTIONAL,
    iE-Extensions                  ProtocolExtensionContainer { { Selected-MBMS-Service-Item-ExtIEs} } OPTIONAL,
    ...
}

Selected-MBMS-Service-Item-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Selected-MBMS-Service-TimeSlot-Information-LCR ::= SEQUENCE (SIZE (1..7)) OF TimeSlotLCR

MBMS-Service-TDM-Information ::= SEQUENCE {
    transmission-Time-Interval ENUMERATED {v10, v20, v40, v80,...},
    tDM-Rep                        INTEGER (2..9),
    tDM-Offset                    INTEGER (0..8),
    tDM-Length                    INTEGER (1..8),
    iE-Extensions                  ProtocolExtensionContainer { { MBMS-Service-TDM-Information-ExtIEs} } OPTIONAL,
    ...
}
MBMS-Service-TDM-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}
PUSCHSet-ID ::= INTEGER (0..255)
Paging-MAC-Flow-Specific-InformationLCR ::= SEQUENCE (SIZE (1..maxNrOfPagingMACFlow)) OF Paging-MAC-Flow-Specific-Information-ItemLCR
Paging-MAC-Flow-Specific-Information-ItemLCR ::= SEQUENCE {
  paging-MACFlow-Id Paging-MACFlow-ID,
  hSDPA-associated-PICH-InfoLCR NSPDA-Associated-PICH-InformationLCR OPTIONAL,
  bindingID BindingID OPTIONAL,
  transportLayerAddress TransportLayerAddress OPTIONAL,
  tn1-qos Tn1Qos OPTIONAL,
  toAWS ToAWS OPTIONAL,
  paging-MACFlows-to-DeleteLCR Paging-MACFlows-to-DeleteLCR-Item OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Paging-MAC-Flow-Specific-Information-ItemLCR-ExtIEs } } OPTIONAL,
  ... 
}
Paging-MAC-Flow-Specific-Information-ItemLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}
Paging-MACFlows-to-DeleteLCR ::= SEQUENCE (SIZE (1..maxNrOfPagingMACFlow)) OF Paging-MACFlows-to-DeleteLCR-Item
Paging-MACFlows-to-DeleteLCR-Item ::= SEQUENCE {
  paging-MACFlow-Id Paging-MACFlow-ID,
  iE-Extensions ProtocolExtensionContainer { { Paging-MACFlows-to-DeleteLCR-Item-ExtIEs } } OPTIONAL,
  ... 
}
Paging-MACFlows-to-DeleteLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}
Process-Memory-Size ::= ENUMERATED {
  hms800, hms1600, hms2400, hms3200, hms4000,
  hms4800, hms5600, hms6400, hms7200, hms8000,
  hms8800, hms9600, hms10400, hms11200, hms12000,
  hms12800, hms13600, hms14400, hms15200, hms16000,
  hms17600, hms19200, hms20800, hms22400, hms24000,
  hms25600, hms27200, hms28800, hms30400, hms32000,
  hms36000, hms40000, hms44000, hms48000, hms52000,
  hms56000, hms60000, hms64000, hms68000, hms72000,
  hms76000, hms80000, hms84000, hms96000, hms104000,
  hms112000, hms120000, hms128000, hms136000, hms144000,
  hms152000, hms160000, hms176000, hms192000, hms208000,
  hms224000, hms240000, hms256000, hms272000, hms288000,
QR-Selector ::= ENUMERATED {
  selected,
  non-selected
}

RACH-Measurement-Result ::= ENUMERATED {
  cpich-EcNo,
  cpich-RSCP,
  pathloss,
  ...
}

RACH-SlotFormat ::= ENUMERATED {
  v0,
  v1,
  v2,
  v3,
  ...
}

RACH-SubChannelNumbers ::= BIT STRING {
  subCh11(0),
  subCh10(1),
  subCh9(2),
  subCh8(3),
  subCh7(4),
  subCh6(5),
  subCh5(6),
  subCh4(7),
  subCh3(8),
  subCh2(9),
  subCh1(10),
  subCh0(11)
} (SIZE (12))

RL-Specific-DCH-Info ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF RL-Specific-DCH-Info-Item

RL-Specific-DCH-Info-Item ::= SEQUENCE {
  dCH-id          DCH-ID,
  bindingID       BindingID OPTIONAL,
  transportlayeraddress  TransportLayerAddress OPTIONAL,
  iE-Extensions    ProtocolExtensionContainer { { RL-Specific-DCH-Info-Item-ExtIEs} } OPTIONAL,
}
...}

RL-Specific-DCH-Info-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { id-TransportBearerNotRequestedIndicator CRITICALITY ignore EXTENSION TransportBearerNotRequestedIndicator PRESENCE optional }, -- FDD only
    ...}

RL-Specific-E-DCH-Info ::= SEQUENCE {
    rl-Specific-E-DCH-Information RL-Specific-E-DCH-Information,
    e-AGCH-PowerOffset E-AGCH-PowerOffset OPTIONAL,
    e-BGCH-PowerOffset E-BGCH-PowerOffset OPTIONAL,
    e-HICH-PowerOffset E-HICH-PowerOffset OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { RL-Specific-E-DCH-Info-Item-ExtIEs} } OPTIONAL,
    ...}

RL-Specific-E-DCH-Info-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...}

RL-Specific-E-DCH-Information ::= SEQUENCE {RL-Specific-E-DCH-Information-Item : RL-Specific-E-DCH-Information-Item
    RL-Specific-E-DCH-Information-Item ::= SEQUENCE {
        e-DCH-MACdFlow-ID E-DCH-MACdFlow-ID,
        bindingID BindingID OPTIONAL,
        transportlayeraddress TransportLayerAddress OPTIONAL,
        iE-Extensions ProtocolExtensionContainer { { RL-Specific-E-DCH-Info-Item-ExtIEs} } OPTIONAL,
    ...}

Range-Correction-Rate ::= INTEGER (-127..127)
-- scaling factor 0.032 m/s

Reference-ReceivedTotalWideBandPower ::= INTEGER (0..621)
-- mapping as for RTWP measurement value, as specified in [22]

Reference-ReceivedTotalWideBandPowerReporting ::= ENUMERATED {
    reference-ReceivedTotalWideBandPower-Requested
}

Reference-ReceivedTotalWideBandPowerSupportIndicator ::= ENUMERATED {
    indication-of-Reference-ReceivedTotalWideBandPower-supported
}

ReferenceClockAvailability ::= ENUMERATED {
    available,
ReferenceSFNoffset ::= INTEGER (0..255)

Reference-E-TFCI-Information ::= SEQUENCE (SIZE (1..maxNrOfRefE TTCIs)) OF Reference-E-TFCI-Information-Item

Reference-E-TFCI-Information-Item ::= SEQUENCE {
  reference-E-TFCI  E-TFCI,
  reference-E-TFCI-PO  Reference-E-TFCI-PO,
  iE-Extensions  ProtocolExtensionContainer { { Reference-E-TFCI-Information-Item-ExtIEs} }  OPTIONAL,
  ...}

Reference-E-TFCI-Information-Item-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...}

Reference-E-TFCI-PO ::= INTEGER (0.. maxNrOfRefE TTCI-PO-QUANTSTEPs)

RepetitionLength ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED {
  v1,
  v2,
  v4,
  v8,
  v16,
  v32,
  v64,
  ...}

RepetitionNumber0 ::= INTEGER (0..255)

RepetitionNumber1 ::= INTEGER (1..256)

RefTFCNumber ::= INTEGER (0..3)

ReportCharacteristics ::= CHOICE {
  onDemand  NULL,
  periodic  ReportCharacteristicsType-ReportPeriodicity,
  event-a  ReportCharacteristicsType-EventA,
  event-b  ReportCharacteristicsType-EventB,
  event-c  ReportCharacteristicsType-EventC,
  event-d  ReportCharacteristicsType-EventD,
  event-e  ReportCharacteristicsType-EventE,
  event-f  ReportCharacteristicsType-EventF,
  ...,
  extension-ReportCharacteristics  Extension-ReportCharacteristics
  }

Extension-ReportCharacteristicsIR NBAP-PROTOCOL-IES ::= {
  ID id-ReportCharacteristicsType-OnModification CRITICALITY reject TYPE ReportCharacteristicsType-OnModification PRESENCE mandatory }

ReportCharacteristicsType-EventA ::= SEQUENCE {
  measurementThreshold ReportCharacteristicsType-MeasurementThreshold,
  measurementHysteresisTime ReportCharacteristicsType-ScaledMeasurementHysteresisTime OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { ReportCharacteristicsType-EventA-ExtIEs} } OPTIONAL,
  ...  
}

ReportCharacteristicsType-EventA-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

ReportCharacteristicsType-EventB ::= SEQUENCE {
  measurementThreshold ReportCharacteristicsType-MeasurementThreshold,
  measurementHysteresisTime ReportCharacteristicsType-ScaledMeasurementHysteresisTime OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { ReportCharacteristicsType-EventB-ExtIEs} } OPTIONAL,
  ...  
}

ReportCharacteristicsType-EventB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

ReportCharacteristicsType-EventC ::= SEQUENCE {
  measurementIncreaseThreshold ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
  measurementChangeTime ReportCharacteristicsType-ScaledMeasurementChangeTime,
  iE-Extensions ProtocolExtensionContainer { { ReportCharacteristicsType-EventC-ExtIEs} } OPTIONAL,
  ...  
}

ReportCharacteristicsType-EventC-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

ReportCharacteristicsType-EventD ::= SEQUENCE {
  measurementDecreaseThreshold ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold,
  measurementChangeTime ReportCharacteristicsType-ScaledMeasurementChangeTime,
  iE-Extensions ProtocolExtensionContainer { { ReportCharacteristicsType-EventD-ExtIEs} } OPTIONAL,
  ...  
}

ReportCharacteristicsType-EventD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

ReportCharacteristicsType-EventE ::= SEQUENCE {
  measurementThreshold1 ReportCharacteristicsType-MeasurementThreshold,
measurementThreshold2   ReportCharacteristicsType-MeasurementThreshold OPTIONAL,
measurementHysteresisTime ReportCharacteristicsType-ScaledMeasurementHysteresisTime OPTIONAL,
reportPeriodicity    ReportCharacteristicsType-ReportPeriodicity OPTIONAL,
iE-Extensions     ProtocolExtensionContainer { { ReportCharacteristicsType-EventE-ExtIEs} } OPTIONAL,
...

ReportCharacteristicsType-EventE-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

ReportCharacteristicsType-EventF ::= SEQUENCE {
 measurementThreshold1   ReportCharacteristicsType-MeasurementThreshold,
 measurementThreshold2   ReportCharacteristicsType-MeasurementThreshold OPTIONAL,
 measurementHysteresisTime ReportCharacteristicsType-ScaledMeasurementHysteresisTime OPTIONAL,
 reportPeriodicity    ReportCharacteristicsType-ReportPeriodicity OPTIONAL,
iE-Extensions     ProtocolExtensionContainer { { ReportCharacteristicsType-EventF-ExtIEs} } OPTIONAL,
...

ReportCharacteristicsType-EventF-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

ReportCharacteristicsType-OnModification ::= SEQUENCE {
 measurementThreshold   ReportCharacteristicsType-MeasurementThreshold,
iE-Extensions     ProtocolExtensionContainer { { ReportCharacteristicsType-OnModification-ExtIEs} } OPTIONAL,
...
}

ReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
 received-total-wide-band-power       Received-total-wide-band-power-Value-IncrDecrThres,
 transmitted-carrier-power  Transmitted-Carrier-Power-Value,
 acknowledged-prach-preambles   Acknowledged-PRACH-preambles-Value,
 uL-TimeslotISCP     UL-TimeslotISCP-Value-IncrDecrThres,
 sir         SIR-Value-IncrDecrThres,
 sir-error      SIR-Error-Value-IncrDecrThres,
 transmitted-code-power    Transmitted-Code-Power-Value-IncrDecrThres,
 rscp     RSCP-Value-IncrDecrThres,
 round-trip-time    Round-Trip-Time-IncrDecrThres,
 notUsed-1-acknowledged-PCPCH-access-preambles  NULL,
 notUsed-2-detected-PCPCH-access-preambles   NULL,
...
 extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold  Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThreshold
}

Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThresholdIE }}

ETS
Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThresholdIE NBAP-PROTOCOL-IES ::= {
  { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission CRITICALITY reject TYPE
    TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory }|
  { ID id-Transmitted-Carrier-Power-For-CellPortion CRITICALITY reject TYPE Transmitted-Carrier-Power-Value PRESENCE mandatory }|
  { ID id-Received-total-wide-band-power-For-CellPortion CRITICALITY reject TYPE Received-total-wide-band-power-Value-IncrDecrThres PRESENCE mandatory }|
  { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-BAICH-AGCH-E-RGCH-Or-E-HICHTransmissionCellPortion CRITICALITY reject TYPE
    TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory }|
  { ID id-UpPTSInterferenceValue CRITICALITY reject TYPE UpPTSInterferenceValue PRESENCE mandatory }|
  { ID id-Received-Scheduled-EDCH-Power-Share CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres PRESENCE mandatory }|
  { ID id-Received-Scheduled-EDCH-Power-Share-For-CellPortion CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres PRESENCE mandatory }|
  { ID id-EDCH-RACH-Report-IncrDecrThres -- FDD only CRITICALITY reject TYPE EDCH-RACH-Report-IncrDecrThres PRESENCE mandatory }|
  { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-BAICH-AGCH-E-RGCH-Or-E-HICHTransmissionCellPortion CRITICALITY reject TYPE
    TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory }|
  { ID id-ULTimeslotISCPValue-For-CellPortion CRITICALITY reject TYPE UL-TimeslotISCP-Value-IncrDecrThres PRESENCE mandatory }|
  { ID id-UpPTSInterferenceValue-For-CellPortion CRITICALITY reject TYPE UpPTSInterferenceValue PRESENCE mandatory }
}

EDCH-RACH-Report-IncrDecrThres ::= SEQUENCE {
  denied-EDCH-RACH-resources Denied-EDCH-RACH-Resources-Value,
  iE-Extensions ProtocolExtensionContainer { { EDCH-RACH-Report-IncrDecrThres-ExtIEs } } OPTIONAL,
  ...
}

EDCH-RACH-Report-IncrDecrThres-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Granted-EDCH-RACH-Resources-Value ::= INTEGER(0..240,...)
-- According to mapping in [25].

Denied-EDCH-RACH-Resources-Value ::= INTEGER(0..240,...)
-- According to mapping in [25].

ReportCharacteristicsType-MeasurementThreshold ::= CHOICE {
  received-total-wide-band-power Received-total-wide-band-power-Value,
  transmitted-carrier-power Transmitted-Carrier-Power-Value,
  acknowledged-prach-preambles Acknowledged-PRACH-preambles-Value,
  UL-TimeslotISCP UL-TimeslotISCP-Value,
  sir SIR-Value,
  sir-error SIR-Error-Value,
  transmitted-code-power Transmitted-Code-Power-Value,
  rscp RSCP-Value,
  rx-timing-deviation Rx-Timing-Deviation-Value,
  round-trip-time Round-Trip-Time-Value,
  notUsed-1-acknowledged-PCPCH-access-preambles NULL,
  notUsed-2-detected-PCPCH-access-preambles NULL,
  extension-ReportCharacteristicsType-MeasurementThreshold Extension-ReportCharacteristicsType-MeasurementThreshold
}

Extension-ReportCharacteristicsType-MeasurementThresholdID NBAP-PROTOCOL-IEs ::= {
  { ID id-TUTRANGPSMeasurementThresholdInformation CRITICALITY reject TYPE TUTRANGPSMeasurementThresholdInformation PRESENCE mandatory}
  { ID id-SFNSFNMeasurementThresholdInformation CRITICALITY reject TYPE SFNSFNMeasurementThresholdInformation PRESENCE mandatory}
  { ID id-Rx-Timing-Deviation-Value-LCR CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR PRESENCE mandatory}
  { ID id-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-Measurement-Value PRESENCE mandatory}
    For 1.28Mcps TDD, used when the Measurement Threshold Value for HS-SICH Reception Quality are less than or equal to 20
    { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory}
    { ID id-HS-DSCHRequiredPowerValue CRITICALITY reject TYPE HS-DSCHRequiredPowerValue PRESENCE mandatory}
  { ID id-DLTransmissionBranchLoadValue CRITICALITY reject TYPE DLTransmissionBranchLoadValue PRESENCE mandatory}
  { ID id-HS-DSCHRequiredPowerValue-For-CellPortion PRESENCE mandatory}
  { ID id-Rx-Timing-Deviation-Value-768 CRITICALITY reject TYPE Rx-Timing-Deviation-Value-768 PRESENCE mandatory}
  { ID id-Rx-Timing-Deviation-Value-384-ext CRITICALITY reject TYPE Rx-Timing-Deviation-Value-384-ext PRESENCE mandatory}
  { ID id-Extended-Round-Trip-Time-Value CRITICALITY reject TYPE Extended-Round-Trip-Time-Value PRESENCE mandatory}
  { ID id-Received-Scheduled-EDCH-Power-Share CRITICALITY reject TYPE RSEPS-Value-IncrDecrThres PRESENCE mandatory}
  { ID id-Additional-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-Measurement-Value PRESENCE mandatory}
    -- Applicable to 1.28Mcps TDD only, used when the Measurement Threshold Value for HS-SICH Reception Quality are more than 20, Measurement Threshold Value - 20 + IE Value
    { ID id-TUTRANGANSSMeasurementThresholdInformation CRITICALITY reject TYPE TUTRANGANSSMeasurementThresholdInformation PRESENCE mandatory}
  { ID id-EDCH-RACH-Report-ThresholdInformation CRITICALITY reject TYPE EDCH-RACH-Report-ThresholdInformation PRESENCE mandatory}
    -- FDD only
  { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue PRESENCE mandatory}
  { ID id-ULTimeslotISCPValue-For-CellPortion CRITICALITY reject TYPE UL-TimeslotISCP-Value PRESENCE mandatory}
EDCH-RACH-Report-ThresholdInformation ::= SEQUENCE {
  denied-EDCH-RACH-resources  Denied-EDCH-RACH-Resources-Value,
  iE-Extensions  ProtocolExtensionContainer { { EDCH-RACH-Report-ThresholdInformation-ExtIEs } } OPTIONAL,
  ...
}

EDCH-RACH-Report-ThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

ReportCharacteristicsType-ScaledMeasurementChangeTime ::= CHOICE {
  msec  MeasurementChangeTime-Scaledmsec,
  ...
}

MeasurementChangeTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementChangeTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms

ReportCharacteristicsType-Scaled MeasurementHysteresisTime ::= CHOICE {
  msec  MeasurementHysteresisTime-Scaledmsec,
  ...
}

MeasurementHysteresisTime-Scaledmsec ::= INTEGER (1..6000,...)
-- MeasurementHysteresisTime-Scaledmsec = Time * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms

ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {
  msec  ReportPeriodicity-Scaledmsec,
  min  ReportPeriodicity-Scaledmin,
  ...
}

ReportPeriodicity-Scaledmsec ::= INTEGER (1..6000,...)
-- ReportPeriodicity-msec = ReportPeriodicity * 10
-- Unit ms, Range 10ms .. 60000ms(1min), Step 10ms

ReportPeriodicity-Scaledmin ::= INTEGER (1..60,...)
-- Unit min, Range 1min .. 60min(hour), Step 1min

ReportPeriodicity-Scaledhour ::= INTEGER (1..24,...)
-- Unit hour, Range 1hour .. 24hours(day), Step 1hour

ResourceOperationalState ::= ENUMERATED {
  enabled,
  disabled
}

RL-ID ::= INTEGER (0..31)
RL-Set-ID ::= INTEGER (0..31)

RLC-Mode ::= ENUMERATED {
    rLC-AM,
    rLC-UM,
    ...}

DL-RLC-PDU-Size-Format ::= ENUMERATED {
    fixed-RLC-PDU-Size,
    flexible-RLC-PDU-Size,
    ...}

Round-Trip-Time-IncrDecrThres ::= INTEGER(0..32766)

RNC-ID ::= INTEGER (0..4095)

Round-Trip-Time-Value ::= INTEGER(0..32767)
-- According to mapping in [22]

RSCP-Value ::= INTEGER (0..127)
-- According to mapping in [23]

RSCP-Value-IncrDecrThres ::= INTEGER (0..126)

Received-total-wide-band-power-For-CellPortion-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Received-total-wide-band-power-For-CellPortion-Value-Item

Received-total-wide-band-power-For-CellPortion-Value-Item ::= SEQUENCE {
    cellPortionID CellPortionID,
    received-total-wide-band-power-value Received-total-wide-band-power-Value,
    iE-Extensions ProtocolExtensionContainer { { Received-total-wide-band-power-For-CellPortion-Value-Item-ExtIEs} } OPTIONAL,
    ...}

Received-total-wide-band-power-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= 

Received-total-wide-band-power-For-CellPortion-ValueLCR ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF Received-total-wide-band-power-For-CellPortion-ValueLCR-Item

Received-total-wide-band-power-For-CellPortion-ValueLCR-Item ::= SEQUENCE {
    cellPortionLCRID CellPortionLCRID,
    received-total-wide-band-power-value Received-total-wide-band-power-Value,
    iE-Extensions ProtocolExtensionContainer { { Received-total-wide-band-power-For-CellPortion-ValueLCR-Item-ExtIEs} } OPTIONAL,
    ...}

Received-total-wide-band-power-For-CellPortion-ValueLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= 


...}

Received-total-wide-band-power-Value ::= INTEGER(0..621)
-- According to mapping in [22]/[23]

Received-total-wide-band-power-Value-IncrDecrThres ::= INTEGER (0..620)

Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value ::= SEQUENCE (SIZE (1..maxNrOfCell PortionsPerCell)) OF Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value-Item

Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value-Item ::= SEQUENCE{
cellPortionID CellPortionID,
received-Scheduled-power-share-value RSEPS-Value,
received-total-wide-band-power-value Received-total-wide-band-power-Value OPTIONAL,
iE-Extensions ProtocolExtensionContainer {{ Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value-Item-ExtIEs} }
OPTIONAL,
...
}

Received-Scheduled-EDCH-Power-Share-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Received-Scheduled-EDCH-Power-Share-Value ::= SEQUENCE{
received-Scheduled-power-share-value RSEPS-Value,
received-total-wide-band-power-value Received-total-wide-band-power-Value OPTIONAL,
...
}

RSEPS-Value-IncrDecrThres ::= INTEGER (0..151)

RSEPS-Value ::= INTEGER (0..151)
-- According to mapping in [22]

RequestedDataValueInformation ::= CHOICE {
informationAvailable InformationAvailable,
informationnotAvailable InformationnotAvailable
}

InformationAvailable ::= SEQUENCE {
requesteddataValue RequestedDataValue,
iE-Extensions ProtocolExtensionContainer {{ InformationAvailableItem-ExtIEs} }
OPTIONAL,
...
}

InformationAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
InformationnotAvailable ::= NULL

RequestedDataValue ::= SEQUENCE {
    dgps-corrections  DGPS Corrections OPTIONAL,
    gps-navandrecovery GPS NAVIGATION Model and Time Recovery OPTIONAL,
    gps-ionsos-model GPS Ionospheric Model OPTIONAL,
    gps-utc-model GPS UTC Model OPTIONAL,
    gps-almanac GPS Almanac OPTIONAL,
    gps-rt-integrity GPS Real Time Integrity OPTIONAL,
    gpsrxpos GPS RX POS OPTIONAL,
    iE-Extensions Protocol Extension Container { { RequestedDataValue-ExtIEs} } OPTIONAL,
}

RequestedDataValue-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-GANSS-Common-Data CRITICALITY ignore EXTENSION GANSS-Common-Data PRESENCE optional },
    { ID id-GANSS-Generic-Data CRITICALITY ignore EXTENSION GANSS-Generic-Data PRESENCE optional },
}

Rx-Timing-Deviation-Value ::= INTEGER (0..8191)
-- According to mapping in [23]

Rx-Timing-Deviation-Value-LCR ::= INTEGER (0..511)
-- According to mapping in [23]

Rx-Timing-Deviation-Value-768 ::= INTEGER (0..65535)
-- According to mapping in [23]

Rx-Timing-Deviation-Value-384-ext ::= INTEGER (0..32767)
-- According to mapping in [23]

RefBeta ::= INTEGER (-15..16)

RTWP-ReportingIndicator ::= ENUMERATED {
    rTWP-reporting-required
}

RTWP-CellPortion-ReportingIndicator ::= ENUMERATED {
    rTWP-CellPortion-reporting-required
}

AdjustmentPeriod ::= INTEGER(1..256)
-- Unit Frame

B-DPCCH-Power-Boosting-Capability ::= ENUMERATED {
    e-DPCCH-Power-Boosting-capable,
    e-DPCCH-Power-Boosting-non-capable
}
SAT-ID ::= INTEGER (0..63)
SAT-Info-Almanac ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-Almanac-Item

SAT-Info-Almanac-Item ::= SEQUENCE {
data-id      DATA-ID,
sat-id             SAT-ID,
gps-e-alm          BIT STRING (SIZE (16)),
gps-toa-alm        BIT STRING (SIZE (8)),
gps-delta-I-alm    BIT STRING (SIZE (16)),
cmegadot-alm       BIT STRING (SIZE (16)),
svhealth-alm       BIT STRING (SIZE (8)),
gps-a-sqrt-alm     BIT STRING (SIZE (24)),
omegazero-alm      BIT STRING (SIZE (24)),
m-zero-alm         BIT STRING (SIZE (24)),
gps-omega-alm      BIT STRING (SIZE (24)),
gps-af-zero-alm    BIT STRING (SIZE (11)),
gps-af-one-alm     BIT STRING (SIZE (11)),
ie-Extensions    ProtocolExtensionContainer { { SAT-Info-Almanac-Item-ExtIEs} }  OPTIONAL,
...}

-- This GPS-Almanac-Information is for the 1st 16 satellites

SAT-Info-Almanac-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SAT-Info-Almanac-ExtList ::= SEQUENCE (SIZE (1..maxNrOfSatAlmanac-maxNoSat)) OF SAT-Info-Almanac-ExtItem

SAT-Info-Almanac-ExtItem ::= SEQUENCE {
data-id      DATA-ID,
sat-id             SAT-ID,
gps-e-alm          BIT STRING (SIZE (16)),
gps-toa-alm        BIT STRING (SIZE (8)),
gps-delta-I-alm    BIT STRING (SIZE (16)),
cmegadot-alm       BIT STRING (SIZE (16)),
svhealth-alm       BIT STRING (SIZE (8)),
gps-a-sqrt-alm     BIT STRING (SIZE (24)),
omegazero-alm      BIT STRING (SIZE (24)),
m-zero-alm         BIT STRING (SIZE (24)),
gps-omega-alm      BIT STRING (SIZE (24)),
gps-af-zero-alm    BIT STRING (SIZE (11)),
gps-af-one-alm     BIT STRING (SIZE (11)),
ie-Extensions    ProtocolExtensionContainer { { SAT-Info-Almanac-ExtItemIEs } }  OPTIONAL,
...}

-- Includes the GPS-Almanac-Information for 17th through 32nd satellites.

SAT-Info-Almanac-ExtItemIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SAT-Info-DGPSCorrections ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-DGPSCorrections-Item
SAT-Info-DGPSCorrections-Item ::= SEQUENCE {     sat-id                                 SAT-ID,     iode-dgps                            BIT STRING (SIZE (8)),     udre                  UDRE,     prc                   PRC,     range-correction-rate               Range-Correction-Rate,     ie-Extensions       ProtocolExtensionContainer { { SAT-Info-DGPSCorrections-Item-ExtIEs} }  OPTIONAL, ... }

SAT-Info-DGPSCorrections-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {     {ID id-DGNSS-ValidityPeriod CRITICALITY ignore EXTENSION DGNSS-ValidityPeriod PRESENCE optional}, ... }

SATInfo-RealTime-Integrity ::= SEQUENCE (SIZE (1..maxNoSat)) OF SAT-Info-RealTime-Integrity-Item

SAT-Info-RealTime-Integrity-Item ::= SEQUENCE {     bad-sat-id       SAT-ID,     ie-Extensions    ProtocolExtensionContainer { { SAT-Info-RealTime-Integrity-Item-ExtIEs} }  OPTIONAL, ... }

SAT-Info-RealTime-Integrity-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ... }

ScaledAdjustmentRatio ::= INTEGER(0..100)
-- AdjustmentRatio = ScaledAdjustmentRatio / 100

MaxAdjustmentStep ::= INTEGER(1..10)
-- Unit Slot

SchedulingInformation ::= ENUMERATED {     included,     not-included }

SecondaryServingCells ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH-1)) OF SecondaryServingCellsItem

SecondaryServingCellsItem ::= SEQUENCE {     secondaryC-ID    C-ID,     numSecondaryHS-SCCH-Codes NumHS-SCCH-Codes OPTIONAL,     sixtyfourQAM-UsageAllowedIndicator SixtyfourQAM-UsageAllowedIndicator OPTIONAL,     ie-Extensions       ProtocolExtensionContainer { { SecondaryServingCellsItem-ExtIEs} } OPTIONAL, ... }

SecondaryServingCellsItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {     {ID id-MIMO-ActivationIndicator CRITICALITY ignore EXTENSION MIMO-ActivationIndicator PRESENCE optional}}
Secondary-UL-Frequency-Activation-State ::= ENUMERATED {
  activated,
  deactivated,
  ...
}

SchedulingPriorityIndicator ::= INTEGER (0..15) -- lowest (0), highest (15)

SID ::= INTEGER (0..maxNrOfMACdPDUIndexes-1)

ScramblingCodeNumber ::= INTEGER (0..15)

Secondary-CPICH-Information-Change ::= CHOICE {
  new-secondary-CPICH CommonPhysicalChannelID,
  secondary-CPICH-shall-not-be-used NULL,
  ...
}

SecondaryCCPCH-SlotFormat ::= INTEGER(0..17,...)

Secondary-CCPCH-SlotFormat-Extended ::= INTEGER(18..23,...)

Segment-Type ::= ENUMERATED {
  first-segment,
  first-segment-short,
  subsequent-segment,
  last-segment,
  last-segment-short,
  complete-SIB,
  complete-SIB-short,
  ...
}

Serving-E-DCH-RL-ID ::= CHOICE {
  serving-E-DCH-RL-in-this-NodeB Serving-E-DCH-RL-in-this-NodeB,
  serving-E-DCH-RL-not-in-this-NodeB NULL,
  ...
}

Serving-E-DCH-RL-in-this-NodeB ::= SEQUENCE {
  rL-ID          RL-ID,
  iE-Extensions  ProtocolExtensionContainer {
    Server-E-DCH-RL-in-this-NodeB-ExtIEs
  } OPTIONAL,
  ...
}

Serving-E-DCH-RL-in-this-NodeB-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SetsOfHS-SCCH-Codes ::= SEQUENCE (SIZE (1..maxNrOfHSDSCH)) OF SetsOfHS-SCCH-CodesItem
SetsOfHS-SCCH-CodesItem ::= SEQUENCE {
  hS-SCCH-PreconfiguredCodes       HS-SCCH-PreconfiguredCodes,
  sixtyfourQAM-DL-UsageIndicator   SixtyfourQAM-DL-UsageIndicator  OPTIONAL,
  hSDSCH-TBSizeTableIndicator     HS-SCCH-TBSizeTableIndicator   OPTIONAL,
  iE-Extensions                    ProtocolExtensionContainer { { SetsOfHS-SCCH-CodesItem-ExtIEs} } OPTIONAL,
  ...
}  

SetsOfHS-SCCH-CodesItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ID id-MIMO-N-M-Ratio    CRITICALITY ignore   EXTENSION MIMO-N-M-Ratio   PRESENCE optional},

Setup-Or-ConfigurationChange-Or-Removal-Of-EDCH-On-secondary-UL-Frequency ::= CHOICE {
  setup     Additional-EDCH-Setup-Info,
  configurationChange  Additional-EDCH-Cell-Information-ConfigurationChange-List,
  removal     Additional-EDCH-Cell-Information-Removal-List,
  ...
}  

SFN ::= INTEGER (0..4095)
SFNSFN-FDD ::= INTEGER (0..614399)
SFNSFN-TDD ::= INTEGER (0..40961)
SFNSFN-TDD768 ::= INTEGER (0..81923)
SFNSFNChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip
SFNSFDrdriftRate ::= INTEGER (-100..100)
-- Unit chip/s, Step 1/256 chip/s, Range -100/256..+100/256 chip/s
SFNSFDrdriftRateQuality ::= INTEGER (0..100)
-- Unit chip/s, Step 1/256 chip/s, Range 0..100/256 chip/s
SFNSFNSFNMeasurementThresholdInformation ::= SEQUENCE {
  SFNSFNChangeLimit     SFNSFNChangeLimit     OPTIONAL,
  predictedSFNSFNSFNDeviationLimit  PredictedSFNSFNSFNDeviationLimit  OPTIONAL,
  iE-Extensions     ProtocolExtensionContainer { { SFNSFNSFNMeasurementThresholdInformation-ExtIEs} }  OPTIONAL,
  ...
}  

SFNSFNSFNMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}  

SFNSFNSFNMeasurementValueInformation ::= SEQUENCE {
  successfulNeighbouringCellSFNSFNSFNobservedTimeDifferenceMeasurementInformation SEQUENCE (SIZE(1..maxNrOfMeanCell)) OF SEQUENCE {
    uC-Id      UC-Id,
sFNSFNValue     SFNSFNValue,    OPTIONAL,
sFNSFPQuality     SFNSFPQuality     OPTIONAL,    sFNSFPDRF     SFNSFPDRF,    OPTIONAL,
sFNSFPDRFQuality     SFNSFPDRFQuality     OPTIONAL, sFNSFPNTI     SFNSFPNTI,    iE-Extensions  ProtocolExtensionContainer { { SuccessfullNeighbouringCellSFNSFN
     ObservedTimeDifference MeasurementInformationItem-ExtIEs} }  OPTIONAL, 
    ... 
},
unsuccessfullNeighbouringCellSFNSFN
     ObservedTimeDifference MeasurementInformation  SEQUENCE (SIZE(0..maxNrOfMeasNCell-1)) OF 
    SEQUENCE {
      uc-Id      UC-Id, 
      iE-Extensions  ProtocolExtensionContainer { { UnsuccessfullNeighbouringCellSFNSFN
     ObservedTimeDifference MeasurementInformationItem-ExtIEs} }  OPTIONAL, 
    ... 
},
    iE-Extensions  ProtocolExtensionContainer { { SFNSFN
     MeasurementValueInformationItem-ExtIEs} }  OPTIONAL, 
    ... 
}
SFNSFN
MeasurementValueInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ... 
}
SuccessfullNeighbouringCellSFNSFN
     ObservedTimeDifference MeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ... 
}
UnsuccessfullNeighbouringCellSFNSFN
     ObservedTimeDifference MeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ... 
}
SFNSFPQuality ::= INTEGER (0..255)    -- Unit chip, Step 1/16 chip, Range 0..255/16 chip
ShutdownTimer ::= INTEGER (1..3600)    -- Unit sec
SIB-Originator ::= ENUMERATED {
  nodeB, 
  cRNC, 
  ... 
}
SIR-Error-Value ::= INTEGER (0..125)    -- According to mapping in [22]
SFNSFPNTI ::= CHOICE {
  sFNSFPNTI-FDD     SFN, 
  sFNSFPNTI-TDD     SFNSFPNTI-TDD, 


```
SFNSFNTimeStamp-TDD::= SEQUENCE {
sFN
  SPN,  
timeSlot
  TimeSlot,  
iE-Extensions
  ProtocolExtensionContainer { { SFNSFNTimeStamp-ExtIEs} }  OPTIONAL,  
  ...
}

SFNSFNTimeStamp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SFNSFNVValue ::= CHOICE {
  sFNSFN-FDD  SFNSFN-FDD,  
  sFNSFN-TDD  SFNSFN-TDD,  
  ...,  
  sFNSFN-TDD768 SFNSFN-TDD768
}

Single-Stream-MIMO-ActivationIndicator ::= NULL

Single-Stream-MIMO-Capability ::= ENUMERATED {
  single-stream-mimo-capable,  
  single-stream-mimo-non-capable
}

Single-Stream-MIMO-Mode-Indicator ::= ENUMERATED {
  activate,  
  deactivate
}

SIR-Error-Value-IncrDecrThres ::= INTEGER (0..124)
SIR-Value ::= INTEGER (0..63)
  -- According to mapping in [22]/[23]
SIR-Value-IncrDecrThres ::= INTEGER (0..62)

SignallingBearerRequestIndicator ::= ENUMERATED {bearerRequested}

SixtyfourQAM-UsageAllowedIndicator ::= ENUMERATED {
  allowed,  
  not-allowed
}

SixtyfourQAM-DL-UsageIndicator ::= ENUMERATED {
  sixtyfourQAM-DL-used,  
  sixtyfourQAM-DL-not-used
}
```
SixtyfourQAM-DL-Capability ::= ENUMERATED {
  sixtyfourQAM-DL-supported,
  sixtyfourQAM-DL-not-supported
}

SixtyfourQAM-DL-MIMO-Combined-Capability ::= ENUMERATED {
  sixtyfourQAM-DL-MIMO-Combined-capable,
  sixtyfourQAM-DL-MIMO-Combined-non-capable
}

SignatureSequenceGroupIndex ::= INTEGER (0..19)

SixteenQAM-UL-Capability ::= ENUMERATED {
  sixteenQAM-UL-capable,
  sixteenQAM-UL-non-capable
}

SixteenQAM-UL-Operation-Indicator ::= ENUMERATED {
  activate,
  deactivate
}

SNPL-Reporting-Type ::= ENUMERATED {
  type1,
  type2
}

Soffset ::= INTEGER (0..9,...)

SpecialBurstScheduling ::= INTEGER (1..256) -- Number of frames between special burst transmission during DTX

Start-Of-Audit-Sequence-Indicator ::= ENUMERATED {
  start-of-audit-sequence,
  not-start-of-audit-sequence
}

Status-Flag ::= ENUMERATED {
  activate,
  deactivate
}

STTD-Indicator ::= ENUMERATED {
  active,
  inactive,
  ...
}
SSDT-SupportIndicator ::= ENUMERATED {
    not-Used-ssDT-Supported,
    ssDT-not-supported
}

Sub-Frame-Number ::= INTEGER (0..4,...)

SyncCase ::= INTEGER (1..2,...)

SYNCDLCodeId ::= INTEGER (1..32,...)

SyncFrameNumber ::= INTEGER (1..10)

SynchronisationReportCharacteristics ::= SEQUENCE {
    synchronisationReportCharacteristicsType           SynchronisationReportCharacteristicsType,
    synchronisationReportCharactThreExc             SynchronisationReportCharactThreExc  OPTIONAL,
    -- This IE shall be included if the synchronisationReportCharacteristicsType IE is set to 'thresholdExceeding'.
    iE-Extensions        ProtocolExtensionContainer { { SynchronisationReportCharacteristics-ExtIEs } } OPTIONAL,
    ...
}

SynchronisationReportCharacteristics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SyncDLCodeIdThreInfoLCR CRITICALITY ignore EXTENSION SyncDLCodeIdThreInfoLCR PRESENCE optional },
    ...
}

SynchronisationReportCharactThreExc ::= SEQUENCE (SIZE (1..maxNrOfCellSyncBursts)) OF SynchronisationReportCharactThreInfoItem  -- Mandatory for 3.84Mcps TDD only. Not Applicable to 1.28Mcps TDD.

SynchronisationReportCharactThreInfoItem ::= SEQUENCE {
    syncFrameNumber     SyncFrameNumber,
    cellSyncBurstInformation SEQUENCE (SIZE (1..maxNrOfReceptsPerSyncFrame)) OF SynchronisationReportCharactCellSyncBurstInfoItem,
    iE-Extensions        ProtocolExtensionContainer { { SynchronisationReportCharactThreInfoItem-ExtIEs } }  OPTIONAL,
    ...
}

SynchronisationReportCharactThreInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SynchronisationReportCharactCellSyncBurstInfoItem ::= SEQUENCE {
    cellSyncBurstCode     CellSyncBurstCode,
    cellSyncBurstCodeShift CellSyncBurstCodeShift,
    cellSyncBurstTiming    CellSyncBurstTiming    OPTIONAL,
    cellSyncBurstTimingThreshold CellSyncBurstTimingThreshold OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs } }  OPTIONAL,
    ...
}

SynchronisationReportCharactCellSyncBurstInfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
T321 ::= ENUMERATED {v100,v200,v400,v800,...}

T-Cell ::= ENUMERATED {
  v0,
  v1,
  v2,
  v3,
  v4,
  v5,
  v6,
  v7,
  v8,
  v9
}

T-RLFAILURE ::= INTEGER (0..255)
-- Unit seconds, Range 0s .. 25.5s, Step 0.1s

T-PROTECT ::= ENUMERATED {v40,v60,v80,v100,v120,v200,v400,...}

T-SYNC ::= ENUMERATED {v40,v80,v120,v160,v200,v300,v400,v500,...}

TDD-AckNack-Power-Offset ::= INTEGER (-7..8,...)
-- Unit dB, Range -7dB .. +8dB, Step 1dB

TDD-ChannelisationCode ::= ENUMERATED {
  chCode1div1,
  chCode2div1,
  chCode2div2,
  chCode4div1,
  chCode4div2,
  chCode4div3,
  chCode4div4,
  chCode8div1,
  chCode8div2,
  chCode8div3,
  chCode8div4,
  chCode8div5,
  chCode8div6,
  chCode8div7,
  chCode8div8,
  chCode16div1,
  chCode16div2,
  chCode16div3,
  chCode16div4,
  chCode16div5,
  chCode16div6,
  chCode16div7,
  chCode16div8,
  chCode16div9,
  chCode16div10,
  chCode16div11,
  chCode16div12,
  chCode16div13,
chCode16div14,
chCode16div15,
chCode16div16,
...

TDD-ChannelisationCodeLCR ::= SEQUENCE {
  tDD-ChannelisationCode   TDD-ChannelisationCode,
  modulation           Modulation, -- Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD or 7.68Mcps TDD
  iE-Extensions         ProtocolExtensionContainer { { TDD-ChannelisationCodeLCR-ExtIEs} }  OPTIONAL,
  ...
}

TDD-ChannelisationCodeLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TDD-ChannelisationCode768 ::= ENUMERATED {
  chCode1div1,
  chCode2div1,
  chCode2div2,
  chCode4div1,
  chCode4div2,
  chCode4div3,
  chCode4div4,
  chCode8div1,
  chCode8div2,
  chCode8div3,
  chCode8div4,
  chCode8div5,
  chCode8div6,
  chCode8div7,
  chCode8div8,
  chCode16div1,
  chCode16div2,
  chCode16div3,
  chCode16div4,
  chCode16div5,
  chCode16div6,
  chCode16div7,
  chCode16div8,
  chCode16div9,
  chCode16div10,
  chCode16div11,
  chCode16div12,
  chCode16div13,
  chCode16div14,
  chCode16div15,
  chCode16div16,
  chCode32div1,
  chCode32div2,
  chCode32div3,
  chCode32div4,
chCode32div5,
chCode32div6,
chCode32div7,
chCode32div8,
chCode32div9,
chCode32div10,
chCode32div11,
chCode32div12,
chCode32div13,
chCode32div14,
chCode32div15,
chCode32div16,
chCode32div17,
chCode32div18,
chCode32div19,
chCode32div20,
chCode32div21,
chCode32div22,
chCode32div23,
chCode32div24,
chCode32div25,
chCode32div26,
chCode32div27,
chCode32div28,
chCode32div29,
chCode32div30,
chCode32div31,
chCode32div32,

TDD-DL-Code-Information ::= SEQUENCE { SIZE (1..maxNrOfDPCHs)} OF TDD-DL-Code-InformationItem

TDD-DL-Code-InformationItem ::= SEQUENCE {  
  dPCH-ID DCNPCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  iE-Extensions ProtocolExtensionContainer { [ TDD-DL-Code-InformationItem-ExtIEs] } OPTIONAL,
}

TDD-DL-Code-LCR-Information ::= SEQUENCE { SIZE (1..maxNrOfDPCHLCRs)} OF TDD-DL-Code-LCR-InformationItem

TDD-DL-Code-LCR-InformationItem ::= SEQUENCE {  
  dPCH-ID DCNPCH-ID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  tdd-DL-DPCH-TimeSlotFormat-LCR TDD-DL-DPCH-TimeSlotFormat-LCR,
  iE-Extensions ProtocolExtensionContainer { [ TDD-DL-Code-LCR-InformationItem-ExtIEs] } OPTIONAL,
}
TDD-DL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ... 
}

TDD-DL-Code-768-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHs768)) OF TDD-DL-Code-768-InformationItem

TDD-DL-Code-768-InformationItem ::= SEQUENCE {
  dPCH-ID         DPCH-ID,
  tdd-ChannelisationCode768    TDD-ChannelisationCode768,
  iE-Extensions       ProtocolExtensionContainer {{ TDD-DL-Code-768-InformationItem-ExtIEs} }  OPTIONAL,
  ...
}

TDD-DL-Code-768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TDD-DL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
  qPSK      QPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
  eightPSK     EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR,
  -- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE denotes MBSFN S-CCPCH time slot format ...
}

QPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)

EightPSK-DL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)

-- For 1.28 Mcps TDD, if the cell is operating in MBSFN only mode, this IE denotes MBSFN S-CCPCH time slot format. INTEGER(0..11,...)

TDD-DPCHOffset ::= CHOICE {
  initialOffset  INTEGER (0..255),
  noinitialOffset  INTEGER (0..63)
}

TDD-PhysicalChannelOffset ::= INTEGER (0..63)

TDD-TPC-DownlinkStepSize ::= ENUMERATED {
  step-size1,
  step-size2,
  step-size3,
  ...
}

TDD-TPC-UplinkStepSize-LCR ::= ENUMERATED {
  step-size1,
  step-size2,
  step-size3,
  ...
}

TransportFormatCombination-Beta ::= CHOICE {
  signalledGainFactors  SEQUENCE {
    gainFactor     CHOICE {
      fdd       SEQUENCE {
      }
    }
  }
}
betaC      BetaCD, 
betaD      BetaCD, 
iE-Extensions  ProtocolExtensionContainer { { GainFactorFDD-ExtIEs } }  OPTIONAL, 
... 
}, 
tdd       BetaCD, 
... 
}, 
refTFCNumber    RefTFCNumber OPTIONAL, 
iE-Extensions  ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } }  OPTIONAL, 
... 
}, 
computedGainFactors    RefTFCNumber, 
... 

GainFactorFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
... 
}

SignalledGainFactors-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
... 
}

TDD-UL-Code-Information ::= SEQUENCE { 
  TDD-UL-Code-InformationItem 
} 

TDD-UL-Code-InformationItem ::= SEQUENCE { 
  dPCH-ID         DPCH-ID, 
  tdd-ChannelisationCode     TDD-ChannelisationCode, 
  iE-Extensions       ProtocolExtensionContainer { { TDD-UL-Code-InformationItem-ExtIEs} }  OPTIONAL, 
... 
} 

TDD-UL-Code-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
... 
}

TDD-UL-Code-LCR-Information ::= SEQUENCE { 
  TDD-UL-Code-LCR-InformationItem 
} 

TDD-UL-Code-LCR-InformationItem ::= SEQUENCE { 
  dPCH-ID         DPCH-ID, 
  tdd-ChannelisationCodeLCR    TDD-ChannelisationCodeLCR, 
  tdd-UL-DPCH-TimeSlotFormat-LCR   TDD-UL-DPCH-TimeSlotFormat-LCR, 
  iE-Extensions       ProtocolExtensionContainer { { TDD-UL-Code-LCR-InformationItem-ExtIEs} }  OPTIONAL, 
... 
} 

TDD-UL-Code-LCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
... 
}

TDD-UL-Code-768-Information ::= SEQUENCE { 
  TDD-UL-Code-768-InformationItem 
} 

TDD-UL-Code-768-InformationItem ::= SEQUENCE { 
  dPCH-ID         DPCH-ID, 
... 
}
TDD-UL-Code-768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

TDD-UL-DPCH-TimeSlotFormat-LCR ::= CHOICE {
qPSK QPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
eightPSK EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR,
...
}

QPSK-UL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..69,...)
EightPSK-UL-DPCH-TimeSlotFormatTDD-LCR ::= INTEGER(0..24,...)

TFCI-Coding ::= ENUMERATED {

v4,
v8,
v16,
v32,
...
}

TFCI-Presence ::= ENUMERATED {

present,
not-present
}

TFCI-SignallingMode ::= SEQUENCE {

tFCI-SignallingOption TFCI-SignallingMode-TFCI-SignallingOption,
not-Used-splitType NULL OPTIONAL,
not-Used-lengthOfTFCI2 NULL OPTIONAL,
TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {

normal,
not-Used-split
}
TGPRC ::= INTEGER (0..511)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence
-- 0 = infinity

TGPSID ::= INTEGER (1..maxTGPS)

TGSN ::= INTEGER (0..14)

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
  ul,
  dl,
  ...
}

TimeSlot-InitiatedListLCR ::= SEQUENCE (SIZE (0..6)) OF TimeSlotLCR

TimeSlotLCR ::= INTEGER (0..6)

TimeSlotLCR-Extension ::= ENUMERATED {
  ts7,
  ...
}

-- ts7 indicates the MBSFN Special Timeslot for 1.28Mcps TDD MBSFN Dedicated Carrier.

TimeSlotMeasurementValueListLCR ::= SEQUENCE (SIZE (1..6)) OF TimeSlotMeasurementValueLCR

TimeSlotMeasurementValueLCR ::= SEQUENCE {
  timeSlotLCR     TimeSlotLCR,
  commonMeasurementValue  CommonMeasurementValue,
  iE-Extensions    ProtocolExtensionContainer { {TimeSlotMeasurementValueListLCR-ExtIEs} } OPTIONAL,
  ...
}

TimeSlotMeasurementValueListLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TimeSlotStatus ::= ENUMERATED {
  active,
  not-active,
  ...
}

TimingAdjustmentValue ::= CHOICE {
  initialPhase  INTEGER (0..1048575,...),
  steadyStatePhase INTEGER (0..255,...)
}

TimingAdjustmentValueLCR ::= CHOICE {
  initialPhase  INTEGER (0..524287,...),
  steadyStatePhase INTEGER (0..127,...)
}
TimingAdvanceApplied ::= ENUMERATED {
  yes,
  no
}

SynchronisationIndicator ::= ENUMERATED {
  timingMaintainedSynchronisation,
  ...
}

TnlQos ::= CHOICE {
  dsField       DsField,
  genericTrafficCategory GenericTrafficCategory,
  ...
}

ToAWE ::= INTEGER (0..2559)
   -- Unit ms

ToAWS ::= INTEGER (0..1279)
   -- Unit ms

Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF

 SEQUENCE {
  tGPSID    TGPSID,
  tGSN      TGSN,
  tGL1      GapLength,
  tGL2      GapLength   OPTIONAL,
  tGD       TOD,
  tGFL1     GapDuration,
  not-to-be-used-1    GapDuration OPTIONAL,
    -- This IE shall never be included in the SEQUENCE. If received it shall be ignored
  ul-DL-mode     UL-DL-mode,
  downlink-Compressed-Mode-Method Downlink-Compressed-Mode-Method   OPTIONAL,
    -- This IE shall be present if the UL/DL mode IE is set to "DL only" or "UL/DL"
  uplink-Compressed-Mode-Method Uplink-Compressed-Mode-Method   OPTIONAL,
    -- This IE shall be present if the UL/DL mode IE is set to "UL only" or "UL/DL"
  dL-FrameType    DL-FrameType,
  delta-SIR1     DeltaSIR,
  delta-SIR-after1 DeltaSIR,
  delta-SIR2     DeltaSIR   OPTIONAL,
  delta-SIR-after2 DeltaSIR   OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
  ...
}
Transmission-Gap-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { 
  ...
}

TransmissionGapPatternSequenceCodeInformation ::= ENUMERATED{
  code-change,
  no-code-change
}

TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue-Item

TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue-Item ::= SEQUENCE{
  cellPortionID       CellPortionID,
  transmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue,
  iE-Extensions       ProtocolExtensionContainer { { TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue-Item-ExtIEs} } OPTIONAL,
  ...
}

TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHOrE-HICHTransmissionCellPortionValue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue-Item

TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue-Item ::= SEQUENCE{
  cellPortionLCRID       CellPortionLCRID,
  transmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue,
  iE-Extensions       ProtocolExtensionContainer { { TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue-Item-ExtIEs} } OPTIONAL,
  ...
}

TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCHOrE-HICHTransmissionCellPortionValue-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmissionValue ::= INTEGER(0..100)
-- According to mapping in [22] and [23]

Transmitted-Carrier-Power-For-CellPortion-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Transmitted-Carrier-Power-For-CellPortion-Value-Item

Transmitted-Carrier-Power-For-CellPortion-Value-Item ::= SEQUENCE{
  cellPortionID       CellPortionID,
  transmitted-Carrier-Power-Value Transmitted-Carrier-Power-Value,
**IE-Extensions**

ProtocolExtensionContainer { { Transmitted-Carrier-Power-For-CellPortion-Value-Item-ExtIEs} }

OPTIONAL,

...

Transmitted-Carrier-Power-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

}

Transmitted-Carrier-Power-For-CellPortion-ValueLCR ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF Transmitted-Carrier-Power-For-

CellPortion-ValueLCR-Item

Transmitted-Carrier-Power-For-CellPortion-ValueLCR-Item ::= SEQUENCE{

cellPortionLCRID       CellPortionLCRID,
transmitted-Carrier-Power-Value   Transmitted-Carrier-Power-Value,

iE-Extensions       ProtocolExtensionContainer { { Transmitted-Carrier-Power-For-CellPortion-ValueLCR-Item-ExtIEs} }

OPTIONAL,

...

}

Transmitted-Carrier-Power-For-CellPortion-ValueLCR-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

}

Transmitted-Carrier-Power-Value ::= INTEGER(0..100)

-- According to mapping in [22]/[23]

Transmitted-Code-Power-Value ::= INTEGER (0..127)

-- According to mapping in [22]/[23]. Values 0 to 9 and 123 to 127 shall not be used.

Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)

TransmissionDiversityApplied ::= BOOLEAN

-- true: applied, false: not applied

TransmitDiversityIndicator ::= ENUMERATED {

active,

inactive

}

TFCS ::= SEQUENCE {

tFCSvalues     CHOICE {

no-Split-in-TFCI   TFCS-TFCList,
not-Used-split-in-TFCI  NULL,

-- This choice shall never be made by the CRNC and the Node B shall consider the procedure as failed if it is received.

...

},
iE-Extensions       ProtocolExtensionContainer { { TFCS-ExtIEs} }

OPTIONAL,

...

}

TFCS-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
  SEQUENCE {
    cTFC             TFCS-CTFC,
    tFC-Beta        TransportFormatCombination-Beta  OPTIONAL,
    -- The IE shall be present if the TFCS concerns a UL DPCH or PRACH channel [FDD – or FCCH channel].
    iE-Extensions   ProtocolExtensionContainer  { { TFCS-TFCSList-ExtIEs} }  OPTIONAL,
    ...
  }

TFCS-TFCSList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCS-CTFC ::= CHOICE {
  ctfc2bit        INTEGER (0..3),
  ctfc4bit        INTEGER (0..15),
  ctfc6bit        INTEGER (0..63),
  ctfc8bit        INTEGER (0..255),
  ctfc12bit       INTEGER (0..4095),
  ctfc16bit       INTEGER (0..65535),
  ctfcmmaxbit     INTEGER (0..maxCTFC)
}

Transport-Block-Size-Index ::= INTEGER(1..maxNrOfHS-DSCH-TBSs)

Transport-Block-Size-Index-for-Enhanced-PCH ::= INTEGER(1..32)
-- Index of the value range 1 to 32 of the MAC-ehs transport block size as specified in appendix A of [32]

Transport-Block-Size-List ::= SEQUENCE (SIZE (1..maxNrOfHS-DSCH-TBSsE-PCH)) OF
  SEQUENCE {
    transport-Block-Size-Index-for-Enhanced-PCH   Transport-Block-Size-Index-for-Enhanced-PCH,
    iE-Extensions   ProtocolExtensionContainer  { { Transport-Block-Size-List-ExtIEs} }  OPTIONAL,
    ...
  }

Transport-Block-Size-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransportBearerRequestIndicator ::= ENUMERATED {
  bearerRequested,
  bearerNotRequested,
  ...
}

TransportBearerNotRequestedIndicator ::= ENUMERATED {
  transport-bearer-shall-not-be-established,
  transport-bearer-may-not-be-established
}

TransportBearerNotSetupIndicator ::= ENUMERATED {
  transport-bearer-not-setup
}
TransportFormatSet ::= SEQUENCE {
  dynamicParts  TransportFormatSet-DynamicPartList,
  semi-staticPart  TransportFormatSet-Semi-staticPart,
  iE-Extensions  ProtocolExtensionContainer { { TransportFormatSet-ExtIEs} }  OPTIONAL,
  ...
}

TransportFormatSet-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransportFormatSet-DynamicPartList ::= SEQUENCE {SIZE (1..maxNrOfTFs)) OF
  SEQUENCE {
    nrOfTransportBlocks  TransportFormatSet-NrOfTransportBlocks,
    transportBlockSize   TransportFormatSet-TransportBlockSize  OPTIONAL,
    -- This IE shall be present if the Number of Transport Blocks IE is set to a value greater than 0
    mode      TransportFormatSet-ModeDP,
    iE-Extensions    ProtocolExtensionContainer { { TransportFormatSet-DynamicPartList-ExtIEs} }  OPTIONAL,
    ...
  }

TransportFormatSet-DynamicPartList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TDD-TransportFormatSet-ModeDP ::= SEQUENCE {
  transmissionTimeIntervalInformation  TransmissionTimeIntervalInformation  OPTIONAL,
  -- This IE shall be present if the Transmission Time Interval IE in the Semi-static Transport Format Information IE is set to 'dynamic'
  iE-Extensions       ProtocolExtensionContainer { {TDD-TransportFormatSet-ModeDP-ExtIEs} } OPTIONAL,
  ...
}

TDD-TransportFormatSet-ModeDP-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransmissionTimeIntervalInformation ::= SEQUENCE {SIZE (1..maxTTI-count)) OF
  SEQUENCE {
    transmissionTimeInterval  TransportFormatSet-TransmissionTimeIntervalDynamic,
    iE-Extensions      ProtocolExtensionContainer { { TransmissionTimeIntervalInformation-ExtIEs} }  OPTIONAL,
    ...
  }

TransmissionTimeIntervalInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TransportFormatSet-Semi-staticPart ::= SEQUENCE {
  transmissionTimeInterval  TransportFormatSet-TransmissionTimeIntervalSemiStatic,
  channelCoding     TransportFormatSet-ChannelCodingType,
  codingRate      TransportFormatSet-CodingRate  OPTIONAL,
  -- This IE shall be present if the Type of channel coding IE is set to 'convolutional' or 'turbo'
  rateMatchingAttribute   TransportFormatSet-RateMatchingAttribute,
  ...
}
TransportFormatSet-CRC-Size ::= ENUMERATED {
v0, v8, v12, v16, v24, ...
}

TransportFormatSet-ChannelCodingType ::= ENUMERATED {
  no-coding-TDD,
  convolutional-coding,
  turbo-coding,
  ...
}

TransportFormatSet-CodingRate ::= ENUMERATED {
  half,
  third,
  ...
}

TransportFormatSet-CRC-Size ::= ENUMERATED {
  v0, v8, v12, v16, v24, ...
}

TransportFormatSet-ModeDP ::= CHOICE {
  tdd     TDD-TransportFormatSet-ModeDP,
  notApplicable    NULL,
  ...
}

TransportFormatSet-ModeSSP ::= CHOICE {
  tdd     TransportFormatSet-SecondInterleavingMode,
  notApplicable    NULL,
  ...
}

TransportFormatSet-NrOfTransportBlocks ::= INTEGER (0..512)

TransportFormatSet-RateMatchingAttribute ::= INTEGER (1..maxRateMatching)

TransportFormatSet-SecondInterleavingMode ::= ENUMERATED {
  frame-related,
  timeSlot-related,
  ...
}
TransportFormatSet-TransmissionTimeIntervalDynamic ::= ENUMERATED {
  msec-10,
  msec-20,
  msec-40,
  msec-80,
  ...
}

TransportFormatSet-TransmissionTimeIntervalSemiStatic ::= ENUMERATED {
  msec-10,
  msec-20,
  msec-40,
  msec-80,
  dynamic,
  ...
  msec-5
}

TransportFormatSet-TransportBlockSize ::= INTEGER (0..5000)

TransportLayerAddress ::= BIT STRING (SIZE (1..160, ...))

TS0-CapabilityLCR ::= ENUMERATED {
  tS0-Capable,
  tS0-Not-Capable
}

TSTD-Indicator ::= ENUMERATED {
  active,
  inactive
}

TSN-Length ::= ENUMERATED {
  tsn-6bits,
  tsn-9bits
}

TUTRANGANSS ::= SEQUENCE {
  mS    INTEGER (0..16383),
  lS    INTEGER (0..4294967295)
}

TUTRANGANSSAccuracyClass ::= ENUMERATED {
  ganssAccuracy-class-A,
  ganssAccuracy-class-B,
  ganssAccuracy-class-C,
  ...
}

TUTRANGANSSMeasurementThresholdInformation ::= SEQUENCE {
  tUTRANGANSSChangeLimit    INTEGER (1..256)            OPTIONAL,
  predictedTUTRANGANSSDeviationLimit INTEGER (1..256)            OPTIONAL,
  ie-Extensions   ProtocolExtensionContainer { { TUTRANGANSSMeasurementThresholdInformation-ExtIEs } } OPTIONAL,
TUTRANGANSSMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
  ...
}

TUTRANGANSSMeasurementValueInformation ::= SEQUENCE {
  tUTRANGANSS TUTRANGANSS,
  tUTRANGANSSQuality INTEGER(0..255) OPTIONAL,
  tUTRANGANSSDriftRate INTEGER(-50..50),
  tUTRANGANSSDriftRateQuality INTEGER(0..50) OPTIONAL,
  ie-Extensions ProtocolExtensionContainer { { TUTRANGANSSMeasurementValueInformation-ExtIEs } } OPTIONAL,
  ...
}

TUTRANGANSSMeasurementValueInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-GANSS-Time-ID CRITICALITY ignore EXTENSION GANSS-Time-ID PRESENCE optional },
  ...
}

TUTRANGPS ::= SEQUENCE {
  ms-part INTEGER (0..16383),
  ls-part INTEGER (0..4294967295)
}

TUTRANGPSChangeLimit ::= INTEGER (1..256)
-- Unit chip, Step 1/16 chip, Range 1/16..16 chip

TUTRANGPSDriftRate ::= INTEGER (-50..50)
-- Unit chip/s, Step 1/256 chip/s, Range -50/256..+50/256 chip/s

TUTRANGPSDriftRateQuality ::= INTEGER (0..50)
-- Unit chip/s, Step 1/256 chip/s, Range 0..50/256 chip/s

TUTRANGPSAccuracyClass ::= ENUMERATED {
  accuracy-class-A,
  accuracy-class-B,
  accuracy-class-C,
  ...
}

TUTRANGPSMeasurementThresholdInformation ::= SEQUENCE {
  tUTRANGPSChangeLimit TUTRANGPSChangeLimit OPTIONAL,
  predictedTUTRANGPSDeviationLimit PredictedTUTRANGPSDeviationLimit OPTIONAL,
  ie-Extensions ProtocolExtensionContainer { { TUTRANGPSMeasurementThresholdInformation-ExtIEs } } OPTIONAL,
  ...
}

TUTRANGPSMeasurementThresholdInformation-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
TUTRANGPSMeasurementValueInformation ::= SEQUENCE {
    tUTRANGPS TUTRANGPS,
    tUTRANGPSQuality TUTRANGPSQuality OPTIONAL,
    tUTRANGPSDriftRate TUTRANGPSDriftRate,
    tUTRANGPSDriftRateQuality TUTRANGPSDriftRateQuality OPTIONAL,
    iE-Extensions ProtocolExtensionContainer {{TUTRANGPSMeasurementValueInformationItem-ExtIEs}} OPTIONAL,
    ...
}

TUTRANGPSMeasurementValueInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
     ...
}

TUTRANGPSQuality ::= INTEGER (0..255)
-- Unit chip, Step 1/16 chip, Range 0..255/16 chip

TxDiversityOnDLControlChannelsByMIMOUECapability ::= ENUMERATED {
    dL-Control-Channel-Tx-Diversity-for-MIMO-UE-with-non-diverse-P-CPICH-Capable,
    dL-Control-Channel-Tx-Diversity-for-MIMO-UE-with-non-diverse-P-CPICH-Not-Capable
}

TypeOfError ::= ENUMERATED {
    not-understood,
    missing,
    ...
}

-- ==========================================
-- U
-- ==========================================

UARFCN ::= INTEGER (0..16383, ...)
-- corresponds to 0MHz .. 3276.6MHz

UC-Id ::= SEQUENCE {
    rNC-ID RNC-ID,
    c-Id C-ID,
    iE-Extensions ProtocolExtensionContainer {{UC-Id-ExtIEs}} OPTIONAL,
    ...
}

UC-Id-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Extended-RNC-ID CRITICALITY reject EXTENSION Extended-RNC-ID PRESENCE optional},
    ...
}

UDRE ::= ENUMERATED {
    udre-minusequal-one-m,
    udre-betweenoneandfour-m,
    udre-betweenfourandeight-m,
    udre-greaterequaleight-m
}
UDREGrowthRate ::= ENumerated {
  growth-1-point-5,
  growth-2,
  growth-4,
  growth-6,
  growth-8,
  growth-10,
  growth-12,
  growth-16 }

UDREValidityTime ::= ENumerated {
  val-20sec,
  val-40sec,
  val-80sec,
  val-160sec,
  val-320sec,
  val-640sec,
  val-1280sec,
  val-2560sec }

UE-AggregateMaximumBitRate ::= SEQUENCE {
  uE-AggregateMaximumBitRateDownlink  UE-AggregateMaximumBitRateDownlink OPTIONAL,
  uE-AggregateMaximumBitRateUplink    UE-AggregateMaximumBitRateUplink OPTIONAL,
  ...
}

UE-AggregateMaximumBitRateDownlink ::= INTEGER {1..1000000000}
-- Unit is bits per sec

UE-AggregateMaximumBitRateUplink ::= INTEGER {1..1000000000}
-- Unit is bits per sec

UE-AggregateMaximumBitRate-Enforcement-Indicator ::= NULL

UE-Capability-Information ::= SEQUENCE {
  hSDSCH-Physical-Layer-Category  INTEGER {1..64,...},
  iE-Extensions      ProtocolExtensionContainer { { UE-Capability-Information-ExtIEs } }   OPTIONAL,
  ...
}

UE-Capability-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-LCRTDD-uplink-Physical-Channel-Capability CRITICALITY ignore EXTENSION LCRTDD-Uplink-Physical-Channel-Capability PRESENCE optional},
  {ID id-number-Of-Supported-Carriers CRITICALITY reject EXTENSION Number-Of-Supported-Carriers PRESENCE optional},
  {ID id-MultiCarrier-HSDSCH-Physical-Layer-Category CRITICALITY ignore EXTENSION LCRTDD-HSDSCH-Physical-Layer-Category PRESENCE optional},
  {ID id-MIMO-SFMode-Supported-For-HSPDSCHDualStream CRITICALITY reject EXTENSION MIMO-SFMode-For-HSPDSCHDualStream PRESENCE optional},
  {ID id-UE-TS0-CapabilityLCR CRITICALITY ignore EXTENSION UB-TS0-CapabilityLCR PRESENCE optional},
  ...
}
UE-TS0-CapabilityLCR ::= ENUMERATED {
  uE-TS0-Capable, 
  uE-TS0-Not-Capable 
}

UE-SupportIndicatorExtension ::= BIT STRING (SIZE (32))
-- First bit: Different HS-SCCH In Consecutive TTIs Support Indicator
-- Second bit: HS-SCCH orders in HS-SCCH-less Operation Support Indicator
-- Note that undefined bits are considered as a spare bit and spare bits shall be set to 0 by the transmitter and shall be ignored by the receiver.

LCRTDD-HSDSCH-Physical-Layer-Category ::= INTEGER (1..64)

UE-DPCCH-burst1 ::= ENUMERATED {v1, v2, v5}
-- Unit subframe

UE-DPCCH-burst2 ::= ENUMERATED {v1, v2, v5}
-- Unit subframe

UE-DRX-Cycle ::= ENUMERATED {v4, v5, v8, v10, v16, v20}
-- Unit subframe

UE-DRX-Grant-Monitoring ::= BOOLEAN
-- true: applied, false: not applied

UE-DTX-Cycle1-2ms ::= ENUMERATED {v1, v4, v5, v8, v10, v16, v20}
-- Unit subframe

UE-DTX-Cycle1-10ms ::= ENUMERATED {v1, v5, v10, v20}
-- Unit subframe

-- Unit subframe

UE-DTX-Cycle2-10ms ::= ENUMERATED {v5, v10, v20, v40, v80, v160}
-- Unit subframe

UE-DTX-DRX-Offset ::= INTEGER (0..159)
-- Unit subframe

UE-DTX-Long-Preamble ::= ENUMERATED {v2, v4, v15}
-- Units of slots

UL-CapacityCredit ::= INTEGER (0..65535)

UL-Delta-T2TP ::= INTEGER (0..65535)

UL-DL-mode ::= ENUMERATED {
  ul-only, 
  dl-only, 
  both-ul-and-dl 
}
UL-DPDCCH-Indicator-For-E-DCH-Operation ::= ENUMERATED {
  ul-DPDCCH-present,
  ul-DPDCCH-not-present
}

Uplink-Compressed-Mode-Method ::= ENUMERATED {
  sPdlv2,
  higher-layer-scheduling,
  ...
}

UL-Timeslot-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationItem

UL-Timeslot-InformationItem ::= SEQUENCE {
  timeSlot        TimeSlot,
  midambleShiftAndBurstType    MidambleShiftAndBurstType,
  tPCI-Presence    TPCI-Presence,
  ul-Code-InformationList     TDD-UL-Code-Information,
  iE-Extensions       ProtocolExtensionContainer { { UL-Timeslot-InformationItem-ExtIEs} }  OPTIONAL,
  ...
}

UL-Timeslot-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-TimeslotLCR-InformationItem

UL-TimeslotLCR-InformationItem ::= SEQUENCE {
  timeSlotLCR        TimeSlotLCR,
  midambleShiftLCR      MidambleShiftLCR,
  tPCI-Presence    TPCI-Presence,
  ul-Code-InformationList     TDD-UL-Code-LCR-Information,
  iE-Extensions       ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-ExtIEs} }  OPTIONAL,
  ...
}

UL-TimeslotLCR-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-PLCCH-Information-UL-TimeslotLCR-Info CRITICALITY reject EXTENSION PLCCHinformation PRESENCE optional },
  ...
}

UL-Timeslot768-Information ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot768-InformationItem

UL-Timeslot768-InformationItem ::= SEQUENCE {
  timeSlot        TimeSlot,
  midambleShiftAndBurstType768   MidambleShiftAndBurstType768,
  tPCI-Presence    TPCI-Presence,
  ul-Code-InformationList     TDD-UL-Code-768-Information,
  iE-Extensions       ProtocolExtensionContainer { { UL-Timeslot768-InformationItem-ExtIEs} }  OPTIONAL,
  ...
}


UL-Timeslot768-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-DPCCH-SlotFormat ::= INTEGER (0..5,...)
UL-SIR ::= INTEGER (-82..173)
  -- According to mapping in [16]
UL-PP-Mode ::= ENUMERATED {
  normal,
  silent,
  ...
}
UL-PhysCH-SF-Variation ::= ENUMERATED {
  sf-variation-supported,
  sf-variation-not-supported
}
UL-ScramblingCode ::= SEQUENCE {
  ul-ScramblingCodeNumber   UL-ScramblingCodeNumber,
  ul-ScramblingCodeLength   UL-ScramblingCodeLength,
  iE-Extensions      ProtocolExtensionContainer { { UL-ScramblingCode-ExtIEs } }  OPTIONAL,
  ...
}
UL-ScramblingCode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-ScramblingCodeNumber ::= INTEGER (0..16777215)
UL-ScramblingCodeLength ::= ENUMERATED {
  short,
  long
}
UL-Synchronisation-Parameters-LCR ::= SEQUENCE {
  ul-Synchronisation-StepSize   UL-Synchronisation-StepSize,
  ul-Synchronisation-Frequency  UL-Synchronisation-Frequency,
  iE-Extensions      ProtocolExtensionContainer { { UL-Synchronisation-Parameters-LCR-ExtIEs } }  OPTIONAL,
  ...
}
UL-Synchronisation-Parameters-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
UL-Synchronisation-StepSize ::= INTEGER (1..8)
UL-Synchronisation-Frequency ::= INTEGER (1..8)
UPPCHPositionLCR ::= INTEGER (0..127)

UL-TimeSlot-ISCP-Info ::= SEQUENCE { SIZE (1..maxNrOfULTSs}) OF UL-TimeSlot-ISCP-InfoItem

UL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
  timeSlot      TimeSlot,
  iSCP       UL-TimeslotISCP-Value,
  iE-Extensions     ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs} }  OPTIONAL,
  ...
}

UL-TimeSlot-ISCP-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UL-TimeSlot-ISCP-LCR-Info ::= SEQUENCE { SIZE (1..maxNrOfULTSLCRs}) OF UL-TimeSlot-ISCP-LCR-InfoItem

UL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE { 
  timeSlotLCR      TimeSlotLCR,
  iSCP       UL-TimeslotISCP-Value,
  iE-Extensions     ProtocolExtensionContainer { { UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs} }  OPTIONAL,
  ...
}

UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UpPTSInterference-For-CellPortion-Value ::= SEQUENCE { SIZE (1..maxNrOfCellPortionsPerCellLCR)) OF UpPTSInterference-For-CellPortion-Value-Item

UpPTSInterference-For-CellPortion-Value-Item ::= SEQUENCE{
  cellPortionLCRID       CellPortionLCRID,
  upPTSInterferenceValue       UpPTSInterferenceValue, 
  iE-Extensions     ProtocolExtensionContainer { { UpPTSInterference-For-CellPortion-Value-Item-ExtIEs} }  OPTIONAL,
  ...
}

UpPTSInterference-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UpPTSInterferenceValue ::= INTEGER (0..127,...)

Unidirectional-DCH-Indicator ::= ENUMERATED {
  downlink-DCH-only,
  uplink-DCH-only
}

USCH-Information ::= SEQUENCE { SIZE (1..maxNrOfUSCHs}) OF USCH-InformationItem

USCH-InformationItem ::= SEQUENCE {
  uSCH-ID         USCH-ID,
  cCTrCH-ID        CCTrCH-ID,   -- UL CCTrCH in which the USCH is mapped
}
transportFormatSet       TransportFormatSet, -- For USCH
allocationRetentionPriority AllocationRetentionPriority,
iE-Extensions          ProtocolExtensionContainer { { USCH-InformationItem-ExtIEs} } OPTIONAL,
...                        

USCH-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { |
{ ID id-bindingID      CRITICALITY ignore EXTENSION BindingID PRESENCE optional |
  -- Shall be ignored if bearer establishment with ALCAP. |
{ ID id-transportlayeraddress   CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional |
  -- Shall be ignored if bearer establishment with ALCAP. |
{ ID id-TnlQos       CRITICALITY ignore EXTENSION TnlQos PRESENCE optional }, |
...                        

USCH-InformationResponse ::= SEQUENCE { |
  USCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { |
  ...                        

USCH-InformationResponseItem ::= SEQUENCE { |
  uSCH-ID          USCH-ID, |
  bindingID         BindingID OPTIONAL, |
  transportLayerAddress      TransportLayerAddress OPTIONAL, |
  iE-Extensions        ProtocolExtensionContainer { { USCH-InformationResponseItem-ExtIEs} } OPTIONAL, |
  ...                        

USCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { |
  ...                        

UL-TimeslotISCP-For-CellPortion-Value ::= SEQUENCE { |
  UL-TimeslotISCP-For-CellPortion-Value-Item ::= SEQUENCE { |
  cellPortionLCRID       CellPortionLCRID, |
  uL-TimeslotISCP-Value      UL-TimeslotISCP-Value, |
  iE-Extensions        ProtocolExtensionContainer { { UL-TimeslotISCP-For-CellPortion-Value-Item-ExtIEs} } OPTIONAL, |
  ...                        

UL-TimeslotISCP-For-CellPortion-Value-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { |
  ...                        

UL-TimeslotISCP-Value ::= INTEGER (0..127) |
  -- According to mapping in [23] |
UL-TimeslotISCP-Value-IncrDecrThres ::= INTEGER (0..126) |
USCH-ID ::= INTEGER (0..255) |
Uu-ActivationState ::= ENUMERATED { |
  activated, |
  de-activated, |
  ... |
}
9.3.5 Common Definitions

-- ******************************************************
-- Common definitions
-- ******************************************************

NBAP-CommonDataTypes {
  itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
  umts-Access (20) modules (3) nbap (2) version1 (1) nbap-CommonDataTypes (3) }

DEFINITIONS AUTOMATIC TAGS ::= 
BEGIN
-- ******************************************************
-- Extension constants
-- ******************************************************

maxPrivateIEs INTEGER ::= 65535
maxProtocolExtensions INTEGER ::= 65535
maxProtocolIEs INTEGER ::= 65535

-- ******************************************************
-- Common Data Types
-- --
Criticality ::= ENumerated { reject, ignore, notify }
MessageDiscriminator ::= ENumerated { common, dedicated }
Presence ::= ENumerated { optional, conditional, mandatory }
PrivateIE-ID ::= CHOICE {
  local INTEGER (0..maxPrivateIEs),
  global OBJECT IDENTIFIER
}
ProcedureCode ::= INTEGER (0..255)
ProcedureID ::= SEQUENCE {
  procedureCode ProcedureCode,
  ddMode ENUMERATED { tdd, fdd, common, ... }
}
ProtocolIE-ID ::= INTEGER (0..maxProtocolIEs)
TransactionID ::= CHOICE {
  shortTransActionId INTEGER (0..127),
  longTransActionId INTEGER (0..32767)
}
TriggeringMessage ::= ENumerated { initiating-message, successful-outcome, unsuccessfull-outcome, outcome }

END

9.3.6 Constant Definitions

NBAP-Constants {
  itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
  umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}

BEGIN
IMPORTS
  ProcedureCode,
  ProtocolIE-ID
FROM NBAP-CommonDataTypes;

END
id-audit             ProcedureCode ::= 0
id-auditRequired           ProcedureCode ::= 1
id-blockResource           ProcedureCode ::= 2
id-cellDeletion           ProcedureCode ::= 3
id-cellReconfiguration          ProcedureCode ::= 4
id-cellSetup            ProcedureCode ::= 5
id-cellSynchronisationInitiation ProcedureCode ::= 45
id-cellSynchronisationReconfiguration ProcedureCode ::= 46
id-cellSynchronisationReporting ProcedureCode ::= 47
id-cellSynchronisationTermination ProcedureCode ::= 48
id-cellSynchronisationFailure ProcedureCode ::= 49
id-commonMeasurementFailure ProcedureCode ::= 6
id-commonMeasurementInitiation ProcedureCode ::= 7
id-commonMeasurementReport ProcedureCode ::= 8
id-commonMeasurementTermination ProcedureCode ::= 9
id-commonTransportChannelDelete ProcedureCode ::= 10
id-commonTransportChannelReconfigure ProcedureCode ::= 11
id-commonTransportChannelSetup ProcedureCode ::= 12
id-compressedModeCommand ProcedureCode ::= 14
id-dedicatedMeasurementFailure ProcedureCode ::= 16
id-dedicatedMeasurementInitiation ProcedureCode ::= 17
id-dedicatedMeasurementReport ProcedureCode ::= 18
id-dedicatedMeasurementTermination ProcedureCode ::= 19
id-downlinkPowerControl ProcedureCode ::= 20
id-downlinkPowerTimeslotControl ProcedureCode ::= 38
id-errorIndicationForCommon ProcedureCode ::= 35
id-errorIndicationForDedicated ProcedureCode ::= 21
id-informationExchangeFailure ProcedureCode ::= 40
id-informationExchangeInitiation ProcedureCode ::= 41
id-informationExchangeTermination ProcedureCode ::= 42
id-informationReporting ProcedureCode ::= 43
id-BearerRearrangement ProcedureCode ::= 50
id-mBMSNoficationUpdate ProcedureCode ::= 53
id-physicalSharedChannelReconfiguration ProcedureCode ::= 37
id-privateMessageForCommon ProcedureCode ::= 36
id-privateMessageForDedicated ProcedureCode ::= 22
id-radioLinkAddition ProcedureCode ::= 23
id-radioLinkDeletion ProcedureCode ::= 24
id-radioLinkFailure ProcedureCode ::= 25
id-radioLinkPreemption ProcedureCode ::= 39
id-radioLinkRestoration ProcedureCode ::= 26
id-radioLinkSetup ProcedureCode ::= 27
id-reset ProcedureCode ::= 13
id-resourceStatusIndication ProcedureCode ::= 28
id-cellSynchronisationAdjustment ProcedureCode ::= 44
id-synchronisedRadioLinkReconfigurationCancellation ProcedureCode ::= 29
id-synchronisedRadioLinkReconfigurationCommit ProcedureCode ::= 30
id-synchronisedRadioLinkReconfigurationPreparation ProcedureCode ::= 31
id-systemInformationUpdate ProcedureCode ::= 32
id-unblockResource ProcedureCode ::= 33  
id-unSynchronisedRadioLinkReconfiguration ProcedureCode ::= 34  
id-radioLinkActivation ProcedureCode ::= 51  
id-radioLinkParameterUpdate ProcedureCode ::= 52  
id-uEstatusUpdate ProcedureCode ::= 54  
id-secondaryULFrequencyReporting ProcedureCode ::= 55  
id-secondaryULFrequencyUpdate ProcedureCode ::= 56

-- ************************************************************
-- Lists
-- ************************************************************

maxNrOfCodes INTEGER ::= 10  
maxNrOfDLTSs INTEGER ::= 15  
maxNrOfDLTSLCRs INTEGER ::= 6  
maxNrOfErrors INTEGER ::= 256  
maxNrOfTPs INTEGER ::= 32  
maxNrOfTPCs INTEGER ::= 1024  
maxNrOfRLs INTEGER ::= 16  
maxNrOfRLs-1 INTEGER ::= 15 -- maxNrOfRLs – 1  
maxNrOfRLs-2 INTEGER ::= 14 -- maxNrOfRLs – 2  
maxNrOfRLSets INTEGER ::= maxNrOfRLs  
maxNrOfDPCHs INTEGER ::= 240  
maxNrOfDPCHsPerRL-1 INTEGER ::= 239 -- maxNrofCCTrCH*maxNrOfULTSs-1  
maxNrOfDPCHLCRs INTEGER ::= 240  
maxNrOfDPCHsLCRPerRL-1 INTEGER ::= 95 -- maxNrofCCTrCH*maxNrOfULTSsLCRs-1  
maxNrOfDPCHs768 INTEGER ::= 480  
maxNrOfDPCHs768PerRL-1 INTEGER ::= 479  
maxNrOfSCCPCHs INTEGER ::= 8  
maxNrOfSCCPCHsinExt INTEGER ::= 232  
maxNrOfSCCPCHs768 INTEGER ::= 480  
maxNrOfDCHs INTEGER ::= 128  
maxNrOfDSCHs INTEGER ::= 32  
maxNrOfFACHs INTEGER ::= 8  
maxNrOfCCTrCHs INTEGER ::= 16  
maxNrOfFDDCHs INTEGER ::= 256  
maxNrOfHSFDDCHs INTEGER ::= 16  
maxNrOfHSFDDCHs768 INTEGER ::= 32  
maxNrOfPUSCHs INTEGER ::= 256  
maxNrOfPUSCHs-1 INTEGER ::= 255  
maxNrOfPDSCHSets INTEGER ::= 256  
maxNrOfPRACHLCRs INTEGER ::= 8  
maxNrOfPUSCHSets INTEGER ::= 256  
maxNrOfSCCPCHLCRs INTEGER ::= 8  
maxNrOfSCCPCHsLCRinExt INTEGER ::= 88  
maxNrOfULTSs INTEGER ::= 15  
maxNrOfULTSsLCRs INTEGER ::= 6  
maxNrOfUSCHs INTEGER ::= 32  
maxNrOfSlotFormatsPRACH INTEGER ::= 8  
maxCellinNodeB INTEGER ::= 256  
maxCCPinNodeB INTEGER ::= 256  
maxCTFC INTEGER ::= 16777215
maxLocalCellinNodeB INTEGER ::= maxCellinNodeB
maxFPACHCell INTEGER ::= 8
maxRACHCell INTEGER ::= maxPRACHCell
maxPCCHCell INTEGER ::= 16
maxPRACHCell INTEGER ::= 16
maxSCCPCHCell INTEGER ::= 32
maxSCCPCHCellinExt INTEGER ::= maxNoOfSCCPCHs + maxNoOfSCCPCHsinExt - maxSCCPCHCell
maxSCCPCHCellinExtLCR INTEGER ::= maxNoOfSCCPCHLCRs + maxNoOfSCCPCHsLCRinExt - maxSCCPCHCell
maxSCCPCHCell1768 INTEGER ::= 480
maxFPICHCell INTEGER ::= 32
maxTTI-count INTEGER ::= 4
maxIBSB INTEGER INTEGER ::= 16
maxIB INTEGER ::= maxLocalCellinNodeB
maxFPACHCell INTEGER ::= 256 -- maxNrOffACHs * maxSCCPCHCell
maxRateMatching INTEGER ::= 256
maxHS-PDSCHCodeNrComp INTEGER ::= 15
maxHS-SCHCodeNrComp INTEGER ::= 127
maxNrsSyncBursts INTEGER ::= 10
maxNrsReceptsPerSyncFrame INTEGER ::= 16
maxNrsMeasNCell INTEGER ::= 96
maxNrsMeasNCell-1 INTEGER ::= maxNrsMeasNCell - 1
maxNrsSF INTEGER ::= 8
maxTGPS INTEGER ::= 6
maxCommunicationContext INTEGER ::= 1048575
maxNrsLevels INTEGER ::= 256
maxNoSat INTEGER ::= 16
maxNoGPSItems INTEGER ::= 8
maxNoHSSCGs INTEGER ::= 32
maxNoHSSICHs INTEGER ::= 4
maxNoHSSICHLs INTEGER ::= 3
maxNrsSyncFramesLCR INTEGER ::= 512
maxNrsReceptionsperSyncFrameLCR INTEGER ::= 8
maxNrsSyncDLCodesLCR INTEGER ::= 32
maxNrsSyncDLCodes INTEGER ::= 4
maxNrsMACdFlows INTEGER ::= 8
maxNrsMACdFlows-1 INTEGER ::= maxNrsMACdFlows - 1
maxNrsMACdPDUIndexes INTEGER ::= 8
maxNrsMACdPDUIndexes-1 INTEGER ::= maxNrsMACdPDUIndexes - 1
maxNrsMACdPDUSize INTEGER ::= 32
maxNrsNTs INTEGER ::= 256
maxNrsPriorityQueues INTEGER ::= 8
maxNrsPriorityQueues-1 INTEGER ::= maxNrsPriorityQueues - 1
maxNrsHARQProcesses INTEGER ::= 8
maxNrsContextsOnUeList INTEGER ::= 16
maxNrsCellPortionsPerCell INTEGER ::= 64
maxNrsCellPortionsPerCell-1 INTEGER ::= maxNrsCellPortionsPerCell - 1
maxNrsPriorityClasses INTEGER ::= 16
maxNrsSatAlmanac INTEGER ::= maxNoSat
maxNrsAGCHs INTEGER ::= 32
maxNrsEDCHMACdFlows INTEGER ::= 8
maxNrsEDCHMACdFlows-1 INTEGER ::= maxNrsEDCHMACdFlows - 1
maxNrsR-GCHs INTEGER ::= 32
maxNrsR-GCHs-DCH INTEGER ::= 8
maxNrsEDCHHARQProcesses INTEGER ::= 6
maxNrsEDCHHARQProcesses2meEDCH INTEGER ::= 8
maxNrOfEDPCCH-PO-QUANTSTEPs INTEGER ::= 8
maxNrOfBits-MACe-PDU-non-scheduled INTEGER ::= 19982
maxNrOfRefETPCIs INTEGER ::= 8
maxNrOfRefETFCI-PO-QUANTSTEPs INTEGER ::= 29
maxNrofSigSeqRGHI INTEGER ::= 39
maxNrOfLogicalChannels INTEGER ::= 16 -- only maximum 15 can be used
maxNrOfCompetitionCells INTEGER ::= 12
maxNrofRACHs INTEGER ::= 16
maxNrofEDCHs INTEGER ::= 4
maxNrofRefETFCICodes INTEGER ::= 4
maxNrOfRefBetas INTEGER ::= 8
maxNrOfPUCCHslots INTEGER ::= 13
maxNrofEBCHs INTEGER ::= 32
maxNrofHS-DSCH-TBS-HS-SCHless INTEGER ::= 4
maxNrofHS-DSCH-TBSs INTEGER ::= 90
maxNrofEBCHCodes INTEGER ::= 4
maxNrofPUCCHslotsL Cle INTEGER ::= 5
maxNrofPUCCHcodes INTEGER ::= 16
maxNrofEBCHs INTEGER ::= 32
maxNrofCommonMACflows INTEGER ::= 8
maxNrofCommonMACflows INTEGER ::= 7
maxNrofPagingMACflow INTEGER ::= 4
maxNrofPagingMACflow INTEGER ::= 32
maxNrofCommonMACqueues INTEGER ::= 8
maxNrofPagingMACqueues INTEGER ::= 8
maxNrofHS-DSCH-TBSsE-PCH INTEGER ::= 2
maxGANSSsat INTEGER ::= 64
maxNrofGANSS INTEGER ::= 8
maxSgnType INTEGER ::= 8
maxFrequencyinCell INTEGER ::= 12
maxFrequencyinCell INTEGER ::= 11
maxHSDDAFrequency INTEGER ::= 8
maxHSDDAFrequency INTEGER ::= 7
maxNrofHS-SCCHsInExt INTEGER ::= 224
maxGANSSsatAlmanac INTEGER ::= 36
maxGANSSClockMod INTEGER ::= 4
maxNrofEDCHRLs INTEGER ::= 4
maxNrofEDCHRLs INTEGER ::= 256
maxNrofEDCHRLs INTEGER ::= 32
maxNrofCommonMACflowsL Cle INTEGER ::= 256
maxNrofCommonMACflowsL Cle INTEGER ::= 255
maxNrofHS-SCCHsL Cle INTEGER ::= 256
maxNrofEDCHMACflowsL Cle INTEGER ::= 256
maxNrofEDCHMACflowsL Cle INTEGER ::= 255
maxNrofEACHsL Cle INTEGER ::= 256
maxNrofEACHsL Cle INTEGER ::= 256
maxNrofERUCCHsL Cle INTEGER ::= 32
maxNrofHSSCCHL Cle INTEGER ::= 32
maxNrofHS-DSCH INTEGER ::= 33
maxGANSs INTEGER ::= 7
maxNoOfTBSs-Mapping-HS-DSCH-SPS INTEGER ::= 4
maxNoOfTBSs-Mapping-HS-DSCH-SPS INTEGER ::= 3
maxNoOfTBSs-Mapping-HS-DSCH-SPS INTEGER ::= 64
maxNoOfRepetition-Period-LCR INTEGER ::= 4
maxNoOfRepetitionPeriod-SPS-LCR INTEGER ::= 3
maxNoOf-HS-SICH-SPS INTEGER ::= 4
maxNoOf-HS-SICH-SPS-1 INTEGER ::= 3
maxNoOfNon-HS-SCCH-Associated-HS-SICH INTEGER ::= 4
maxNoOfNon-HS-SCCH-Associated-HS-SICH-Ext INTEGER ::= 44
maxMBMSServiceSelect INTEGER ::= 256
maxNrOfCellPortionsPerCellLCR INTEGER ::= 256
maxNrOfCellPortionsPerCellLCR-1 INTEGER ::= 255
maxNoOfCommonH-RNTI INTEGER ::= 256
maxNrOfDCHMeasurementOccasionPatternSequence INTEGER ::= 6

-- IEs

id-AICH-Information ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 1
id-BCH-Information ProtocolIE-ID ::= 7
id-BCH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 8
id-BCCH-ModificationTime ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator ProtocolIE-ID ::= 10
id-Cause ProtocolIE-ID ::= 13
id-CCP-InformationItem-AuditRsp ProtocolIE-ID ::= 14
id-CCP-InformationList-AuditRsp ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 16
id-Cell-InformationItem-AuditRsp ProtocolIE-ID ::= 17
id-Cell-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 18
id-Cell-InformationList-AuditRsp ProtocolIE-ID ::= 19
id-CellParameterID ProtocolIE-ID ::= 23
id-CFN ProtocolIE-ID ::= 24
id-C-ID ProtocolIE-ID ::= 25
id-CommonMeasurementAccuracy ProtocolIE-ID ::= 39
id-CommonMeasurementObjectType-CM-Rprt ProtocolIE-ID ::= 31
id-CommonMeasurementObjectType-CM-Rqst ProtocolIE-ID ::= 32
id-CommonMeasurementObjectType-CM-Rsp ProtocolIE-ID ::= 33
id-CommonMeasurementType ProtocolIE-ID ::= 34
id-CommonPhysicalChannelID ProtocolIE-ID ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD ProtocolIE-ID ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD ProtocolIE-ID ::= 37
id-CommunicationControlPortID ProtocolIE-ID ::= 40
id-ConfigurationGenerationID ProtocolIE-ID ::= 43
id-CRNC-CommunicationContextID ProtocolIE-ID ::= 44
id-CriticalityDiagnostics ProtocolIE-ID ::= 45
id-DCHs-to-Add-FDD ProtocolIE-ID ::= 48
id-DCH-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 49
id-DCHs-to-Add-TDD ProtocolIE-ID ::= 50
id-DCH-DeleteList-RL-ReconfPrepFDD ProtocolIE-ID ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD ProtocolIE-ID ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD ProtocolIE-ID ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD
id-DCH-FDD-Information
id-DCH-TDD-Information
id-DCH-InformationResponse
id-FDD-DCHs-to-Modify
id-DCH-ModifyList-RL-ReconfRqstTDD
id-DCH-RearrangeList-Bearer-RearrangeInd
id-DedicatedMeasurementObjectType-DM-Rprt
id-DedicatedMeasurementObjectType-DM-Rqst
id-DedicatedMeasurementObjectType-DM-Rsp
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD
id-DL-DPCH-InformationList-RL-SetupRqstTDD
id-DL-DPCH-Information-RL-ReconfPrepFDD
id-DL-DPCH-Information-RL-ReconfRqstFDD
id-DL-DPCH-Information-RL-SetupRqstFDD
id-DL-DPCH-TimingAdjustment
id-DL-ReferencePowerInformationItem-DL-PC-Rqst
id-DLReferencePower
id-DLReferencePowerList-DL-PC-Rqst
id-DSCHs-to-Add-TDD
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD
id-DSCH-InformationResponse
id-DSCH-TDD-Information
id-DSCH-RearrangeList-Bearer-RearrangeInd
id-End-Of-Audit-Sequence-Indicator
id-FACH-Information
id-FACH-InformationItem-ResourceStatusInd
id-FACH-ParametersList-CTCH-ReconfRqstTDD
id-FACH-ParametersListIE-CTCH-SetupRqstFDD
id-FACH-ParametersListIE-CTCH-SetupRqstTDD
id-IndicationType-ResourceStatusInd
id-Local-Cell-ID
id-Local-Cell-Group-InformationItem-AuditRsp
id-Local-Cell-Group-InformationItem-ResourceStatusInd
id-Local-Cell-Group-InformationItem2-ResourceStatusInd
id-Local-Cell-Group-InformationList-AuditRsp
id-Local-Cell-InformationItem-AuditRsp
id-Local-Cell-InformationItem-ResourceStatusInd
id-Local-Cell-InformationItem2-ResourceStatusInd
id-Local-Cell-InformationList-AuditRsp
id-AdjustmentPeriod
id-MaxAdjustmentStep
id-MaximumTransmissionPower
id-MeasurementFilterCoefficient
id-MeasurementID
id-MessageStructure
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst
id-NodeB-CommunicationContextID
id-NeighbouringCellMeasurementInformation
id-P-CCPCH-Information
id-P-CCPCH-InformationItem-ResourceStatusInd
id-P-CPTCH-Information
id-P-CPTCH-InformationItem-ResourceStatusInd
id-P-SCH-Information
id-PCCPCH-Information-Cell-ReconfRqstTDD
id-PCCPCH-Information-Cell-SetupRqstTDD
id-PCH-Parameters-CTCH-ReconfRqstTDD
id-PCH-ParametersItem-CTCH-SetupRqstFDD
id-PCH-ParametersItem-CTCH-SetupRqstTDD
id-PCH-Information
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst
id-PDSCHSets-AddList-PSCH-ReconfRqst
id-PDSCHSets-DeleteList-PSCH-ReconfRqst
id-PDSCHSets-ModifyList-PSCH-ReconfRqst
id-PICH-Information
id-PICH-Parameters-CTCH-ReconfRqstTDD
id-PowerAdjustmentType
id-PRACH-Information
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD
id-PrimaryCPICH-Information-Cell-SetupRqstFDD
id-PrimarySCH-Information-Cell-ReconfRqstFDD
id-PrimarySCH-Information-Cell-SetupRqstFDD
id-PrimaryScramblingCode
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst
id-PUSCHSets-AddList-PSCH-ReconfRqst
id-PUSCHSets-DeleteList-PSCH-ReconfRqst
id-PUSCHSets-ModifyList-PSCH-ReconfRqst
id-RACH-Information
id-RACH-ParametersItem-CTCH-SetupRqstFDD
id-RACH-ParameterItem-CTCH-SetupRqstTDD
id-ReportCharacteristics
id-Reporting-Object-RL-FailureInd
id-Reporting-Object-RL-RestoreInd
id-RL-InformationItem-DM-Rpt
id-RL-InformationItem-DM-Rqst
id-RL-InformationItem-DM-Rep
id-RL-InformationItem-RL-AdditionRqstFDD
id-RL-InformationItem-RL-DeletionRqst
id-RL-InformationItem-RL-FailureInd
id-RL-InformationItem-RL-PreemptRequiredInd ProtocolIE-ID ::= 286
id-RL-InformationItem-RL-ReconfPrepFDD ProtocolIE-ID ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD ProtocolIE-ID ::= 209
id-RL-InformationItem-RL-RestoreInd ProtocolIE-ID ::= 210
id-RL-InformationItem-RL-SetupRqstFDD ProtocolIE-ID ::= 211
id-RL-InformationList-RL-AdditionRqstFDD ProtocolIE-ID ::= 212
id-RL-InformationList-RL-DeletionRqst ProtocolIE-ID ::= 213
id-RL-InformationList-RL-PreemptRequiredInd ProtocolIE-ID ::= 214
id-RL-InformationList-RL-ReconfPrepFDD ProtocolIE-ID ::= 215
id-RL-InformationList-RL-ReconfRqstFDD ProtocolIE-ID ::= 216
id-RL-InformationList-RL-SetupRqstFDD ProtocolIE-ID ::= 217
id-RL-InformationResponseItem-RL-AdditionRspFDD ProtocolIE-ID ::= 218
id-RL-InformationResponseItem-RL-ReconfReady ProtocolIE-ID ::= 219
id-RL-InformationResponseItem-RL-ReconfRsp ProtocolIE-ID ::= 220
id-RL-InformationResponseItem-RL-ReconfRsp ProtocolIE-ID ::= 221
id-RL-InformationResponseList-RL-AdditionRspFDD ProtocolIE-ID ::= 222
id-RL-InformationResponseList-RL-ReconfReady ProtocolIE-ID ::= 223
id-RL-InformationResponseList-RL-ReconfRsp ProtocolIE-ID ::= 224
id-RL-InformationResponseList-RL-SetupRspFDD ProtocolIE-ID ::= 225
id-RL-InformationResponse-RL-AdditionRspTDD ProtocolIE-ID ::= 226
id-RL-InformationResponse-RL-SetupRspTDD ProtocolIE-ID ::= 227
id-RL-Information-RL-AdditionRqstTDD ProtocolIE-ID ::= 228
id-RL-Information-RL-ReconfRqstTDD ProtocolIE-ID ::= 229
id-RL-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 230
id-RL-ReconfigurationFailureItem-RL-ReconfFailure ProtocolIE-ID ::= 231
id-RL-Set-InformationItem-DM-Rprt ProtocolIE-ID ::= 232
id-RL-Set-InformationItem-RL-FailureInd ProtocolIE-ID ::= 233
id-RL-Set-InformationItem-RL-RestoreInd ProtocolIE-ID ::= 234
id-S-CCPCH-Information ProtocolIE-ID ::= 235
id-S-CPICH-Information ProtocolIE-ID ::= 236
id-S-SCH-Information ProtocolIE-ID ::= 237
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 238
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 239
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 240
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 241
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 242
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 243
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 244
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 245
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 246
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 247
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 248
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 249
id-Secondary-CCPCH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 250
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 251
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 252
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 253
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 254
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 255
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 256
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 257
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 258
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 260
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 263
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 264
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 265
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 266
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ProtocolIE-ID ::= 267
id-SFN ProtocolIE-ID ::= 268
id-SignallingBearerRequestIndicator ProtocolIE-ID ::= 269
id-Start-Of-Audit-Sequence-Indicator ProtocolIE-ID ::= 270
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD ProtocolIE-ID ::= 271
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD ProtocolIE-ID ::= 272
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD ProtocolIE-ID ::= 273
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD ProtocolIE-ID ::= 274
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD ProtocolIE-ID ::= 275
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD ProtocolIE-ID ::= 276
id-SyncCase ProtocolIE-ID ::= 277
id-T-Cell ProtocolIE-ID ::= 278
id-TargetCommunicationControlPortID ProtocolIE-ID ::= 279
<table>
<thead>
<tr>
<th>ProtocolIE-ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>277</td>
<td>id-TypeOfError</td>
</tr>
<tr>
<td>278</td>
<td>id-TimeSlotConfigurationList-Cell-SetupRqstTDD</td>
</tr>
<tr>
<td>279</td>
<td>id-TransmissionDiversityApplied</td>
</tr>
<tr>
<td>280</td>
<td>id-UARFCNforNt</td>
</tr>
<tr>
<td>281</td>
<td>id-UARFCNforNd</td>
</tr>
<tr>
<td>282</td>
<td>id-UARFCNforNu</td>
</tr>
<tr>
<td>284</td>
<td>id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD</td>
</tr>
<tr>
<td>285</td>
<td>id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD</td>
</tr>
<tr>
<td>288</td>
<td>id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD</td>
</tr>
<tr>
<td>289</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>291</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>292</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>293</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>294</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>295</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>296</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>297</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>298</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>299</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>300</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>301</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>302</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>303</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>304</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>305</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>306</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>307</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>308</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>309</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>310</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>311</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>312</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>313</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>314</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>315</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>316</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>317</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>318</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>319</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>320</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>321</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>322</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>323</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>324</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>325</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>326</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>327</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>328</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>329</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>330</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>331</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>332</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>333</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>334</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>335</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>336</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>337</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>338</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>339</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>340</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>341</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>342</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>343</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>344</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>345</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>346</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>347</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>348</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>349</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>350</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>351</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>352</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>353</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>354</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
<tr>
<td>355</td>
<td>id-UL-DPCH-InformationRL-ReconfRqstFDD</td>
</tr>
</tbody>
</table>
id-CellSyncInfoList-CellSyncReconfRqstTDD
id-CellSyncTransInit-CellSyncInitiationRqstTDD
id-CellSyncResumeMeasureInit-CellSyncInitiationRqstTDD
id-CellSyncResumeTransconfiguration-CellSyncReconfRqstTDD
id-CellSyncResumeMeasRemconfiguration-CellSyncReconfRqstTDD
id-CellSyncResumeTransInfoList-CellSyncReconfRqstTDD
id-CellSyncInfo-CellSyncReprtTDD
id-CSBTransmissionID
id-CSBMeasurementID
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD
id-NCyclesPerSFNperiod
id-NRepetitionsPerCyclePeriod
id-SyncFrameNumber
id-SynchronisationReportType
id-SynchronisationReportCharacteristics
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD
id-ReferenceClockAvailability
id-ReferenceSFNoffset
id-InformationExchangeID
id-InformationExchangeObject Type-InfEx-Rqst
id-InformationType
id-InformationReportCharacteristics
id-IPDLParameter-Information-Cell-ReconfRqstFDD
id-IPDLParameter-Information-Cell-SetupRqstFDD
id-IPDLParameter-Information-Cell-ReconfRqstTDD
id-IPDLParameter-Information-Cell-SetupRqstTDD
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD
id-DwPCH-LCR-Information
id-DwPCH-LCR-InformationList-AuditRsp
id-DwPCH-LCR-Information-Cell-SetupRqstTDD
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD
id-DwPCH-LCR-Information-ResourceStatusInd
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD
id-FPACH-LCR-Information
id-FPACH-LCR-Information-AuditRsp
id-FPACH-LCR-InformationList-AuditRsp
id-FPACH-LCR-InformationList-ResourceStatusInd
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD
id-PCCPCH-LCR-Information-Cell-SetupRqstTDD
id-PCH-Power-LCR-CTCH-SetupRqstTDD
id-PCH-Power-LCR-CTCH-ReconfRqstTDD
id-PICH-LCR-Parameters-CTCH-SetupRqstTDD
id-PCH-LCR-ParametersList-CTCH-SetupRqstTDD
id-RL-InformationResponse-LCR-RL-SetupRspTDD
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD
id-TimeSlot
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD
id-HS-PDSCH-HS-SCCH-FDD-Information-PSCH-ReconfRqst    ProtocolIE-ID ::= 530
id-HS-PDSCH-HS-SCCH-Information-PSCH-ReconfRqst    ProtocolIE-ID ::= 531
id-HS-PDSCH-HS-SCCH-RNTI              ProtocolIE-ID ::= 535
id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst    ProtocolIE-ID ::= 536
id-HS-PDSCH-TDD-Information-Response         ProtocolIE-ID ::= 537
id-HSPDSCH-RL-ID              ProtocolIE-ID ::= 541
id-PrimCCPCH-RSCP-DL-PC-RqstTDD          ProtocolIE-ID ::= 542
id-Unused-ProtocolIE-ID-64             ProtocolIE-ID ::= 64
id-PDSCH-RL-ID              ProtocolIE-ID ::= 66
id-HSDSCH-RearrangeList-Bearer-RearrangeInd        ProtocolIE-ID ::= 553
id-HSDSCH-RearrangeList-Bearer-RearrangeInd        ProtocolIE-ID ::= 553
id-UL-Synchronisation-Parameters-LCR                                      ProtocolIE-ID ::= 554
id-HDSCH-SCCH-Information             ProtocolIE-ID ::= 555
id-HDSCH-SCCH-Information-Response         ProtocolIE-ID ::= 556
id-HSDSCH-RL-ID              ProtocolIE-ID ::= 557
id-HSDSCH-TDD-Information-Response         ProtocolIE-ID ::= 558
id-HSDSCH-TDD-Information-Response         ProtocolIE-ID ::= 558
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD     ProtocolIE-ID ::= 559
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD     ProtocolIE-ID ::= 559
id-TDD-TFC-UplinkStepSize-LCR-RL-SetupRqstTDD          ProtocolIE-ID ::= 560
id-TDD-TFC-UplinkStepSize-LCR-RL-AdditionRqstTDD          ProtocolIE-ID ::= 561
id-TDD-TFC-UplinkStepSize-RL-AdditionRqstTDD          ProtocolIE-ID ::= 562
id-TDD-TFC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD  ProtocolIE-ID ::= 563
id-TDD-TFC-UplinkStepSize-InformationModify-RL-ReconfPrepTDD  ProtocolIE-ID ::= 564
id-TDD-TFC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD  ProtocolIE-ID ::= 565
id-TDD-TFC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD  ProtocolIE-ID ::= 566
id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD          ProtocolIE-ID ::= 567
id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD          ProtocolIE-ID ::= 568
id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD          ProtocolIE-ID ::= 569
id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD ProtocolIE-ID ::= 570
id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD ProtocolIE-ID ::= 571
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD ProtocolIE-ID ::= 572
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD ProtocolIE-ID ::= 573
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD ProtocolIE-ID ::= 574
id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD ProtocolIE-ID ::= 575
id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD ProtocolIE-ID ::= 577
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD ProtocolIE-ID ::= 578
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD ProtocolIE-ID ::= 579
id-Initial-DL-Power-TimeslotLCR-InformationItem ProtocolIE-ID ::= 580
id-Maximum-DL-Power-TimeslotLCR-InformationItem ProtocolIE-ID ::= 581
id-Minimum-DL-Power-TimeslotLCR-InformationItem ProtocolIE-ID ::= 582
id-HS-DSCHProvidedBitRateValueInformation ProtocolIE-ID ::= 583
id-HS-DSCHRequiredPowerValueInformation ProtocolIE-ID ::= 584
id-HS-DSCHRequiredPowerValue ProtocolIE-ID ::= 585
id-TransmittedCarrierPowerOfAllCodesNotUsedForHSTransmission ProtocolIE-ID ::= 586
id-HS-SICH-Reception-Quality ProtocolIE-ID ::= 587
id-HS-SICH-Reception-Quality-Measurement-Value ProtocolIE-ID ::= 588
id-HSSICH-Info-DN-Rprt ProtocolIE-ID ::= 589
id-HSSICH-Info-DN-Rqst ProtocolIE-ID ::= 590
id-HSSICH-Info-DN-Rep ProtocolIE-ID ::= 591
id-Best-Cell-Portions-Value ProtocolIE-ID ::= 592
id-Primary-CPICH-Usage-for-Channel-Estimation ProtocolIE-ID ::= 593
id-Secondary-CPICH-Information-Change ProtocolIE-ID ::= 594
id-NumberOfReportedCellPortions ProtocolIE-ID ::= 595
id-CellPortion-InformationItem-Cell-SetupRqstFDD ProtocolIE-ID ::= 596
id-CellPortion-InformationList-Cell-SetupRqstFDD ProtocolIE-ID ::= 597
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD ProtocolIE-ID ::= 598
id-Secondary-CPICH-Information ProtocolIE-ID ::= 599
id-Received-total-wide-band-power-For-CellPortion ProtocolIE-ID ::= 600
id-Unidirectional-DCH-Indicator ProtocolIE-ID ::= 601
id-TimingAdjustmentValueLCR ProtocolIE-ID ::= 602
id-multipleRL-dl-DPCH-InformationList ProtocolIE-ID ::= 603
id-multipleRL-dl-DPCH-InformationModifyList ProtocolIE-ID ::= 604
id-multipleRL-ul-DPCH-InformationList ProtocolIE-ID ::= 605
id-multipleRL-ul-DPCH-InformationModifyList ProtocolIE-ID ::= 606
id-RL-ID ProtocolIE-ID ::= 607
id-RL-ID ProtocolIE-ID ::= 608
id-SAT-Info-Almanac-ExtItem ProtocolIE-ID ::= 609
id-HSSDRA-Capability ProtocolIE-ID ::= 610
id-HSSDSCCH-Resources-Information-AuditRsp ProtocolIE-ID ::= 611
id-HSSRSLCH-Resources-Information-ResourceStatusInd ProtocolIE-ID ::= 612
id-HSSDSDCH-MACdFlows-to-Add ProtocolIE-ID ::= 613
id-HSSDSDCH-MACdFlows-to-Delete ProtocolIE-ID ::= 614
id-HSSDSCCH-Information-to-Modify- Unsynchronised ProtocolIE-ID ::= 615
id-TnlQos ProtocolIE-ID ::= 616
id-Received-total-wide-band-power-For-CellPortion-Value ProtocolIE-ID ::= 617
id-Transmitted-Carrier-Power-For-CellPortion ProtocolIE-ID ::= 618
id-Transmitted-Carrier-Power-For-CellPortion-Value ProtocolIE-ID ::= 619
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHorE-HICHTransmissionCellPortion ProtocolIE-ID ::= 620
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCCH-E-AGCH-E-RGCHorE-HICHTransmissionCellPortionValue ProtocolIE-ID ::= 621
id-UpPTSInterferenceValue ProtocolIE-ID ::= 622
id-PrimaryCCPCH-RSCP-Delta ProtocolIE-ID ::= 623
id-MeasurementRecoveryBehavior ProtocolIE-ID ::= 624
id-MeasurementRecoveryReportingIndicator ProtocolIE-ID ::= 625
id-MeasurementRecoverySupportIndicator ProtocolIE-ID ::= 626
id-Tstd-indicator ProtocolIE-ID ::= 627
id-multiple-RL-Information-RL-ReconfPrepTDD ProtocolIE-ID ::= 628
id-multiple-RL-Information-RL-ReconfRqstTDD ProtocolIE-ID ::= 629
id-DL-DPCH-Power-Information-RL-ReconfPrepFDD ProtocolIE-ID ::= 630
id-F-DPCH-Information-RL-ReconfPrepFDD ProtocolIE-ID ::= 631
id-F-DPCH-Information-RL-SetupRqstFDD ProtocolIE-ID ::= 632
id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 633
id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 634
id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 635
id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 636
id-MICH-CPN ProtocolIE-ID ::= 637
id-MICH-Information-AuditRsp ProtocolIE-ID ::= 638
id-MICH-Information-ResourceStatusInd ProtocolIE-ID ::= 639
id-MICH-Parameters-CTCH-ReconfRqstFDD ProtocolIE-ID ::= 640
id-MICH-Parameters-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 641
id-MICH-Parameters-CTCH-SetupRqstFDD ProtocolIE-ID ::= 642
id-MICH-Parameters-CTCH-SetupRqstTDD ProtocolIE-ID ::= 643
id-Modification-Period ProtocolIE-ID ::= 644
id-NI-Information-NotifUpdateCmd ProtocolIE-ID ::= 645
id-S-CCPCH-InformationListExt-AuditRsp ProtocolIE-ID ::= 646
id-S-CCPCH-InformationListExt-ResourceStatusInd ProtocolIE-ID ::= 647
id-S-CCPCH-LCR-InformationListExt-AuditRsp ProtocolIE-ID ::= 648
id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd ProtocolIE-ID ::= 649
id-HARQ-Preamble-Mode ProtocolIE-ID ::= 650
id-Initial-DL-DPCH-TimingAdjustment ProtocolIE-ID ::= 651
id-Initial-DL-DPCH-TimingAdjustment-Allowed ProtocolIE-ID ::= 652
id-DLTransmissionBranchLoadValue ProtocolIE-ID ::= 653
id-Power-Local-Cell-Group-choice-CM-Rqst ProtocolIE-ID ::= 654
id-Power-Local-Cell-Group-choice-CM-Rsp ProtocolIE-ID ::= 655
id-Power-Local-Cell-Group-choice-CM-Rprt ProtocolIE-ID ::= 656
id-SynchronisationIndicator ProtocolIE-ID ::= 657
id-HS-DCH-And-EDCH-CellPortion-Information-PSCH-ReconfRqst ProtocolIE-ID ::= 658
id-Unused-ProtocolIE-ID-659 ProtocolIE-ID ::= 659
id-HS-DSCH-RequiredPowerValue-For-CellPortion ProtocolIE-ID ::= 660
id-HS-DSCH-ProvidedBitRateValueInformation-For-CellPortion ProtocolIE-ID ::= 661
id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code ProtocolIE-ID ::= 662
id-E-AGCH-FDD-Code-Information ProtocolIE-ID ::= 663
id-E-DCH-Capability ProtocolIE-ID ::= 664
id-E-DCH-FDD-DL-Control-Channel-Information ProtocolIE-ID ::= 665
id-E-DCH-FDD-Information ProtocolIE-ID ::= 666
id-E-DCH-FDD-Information-Response ProtocolIE-ID ::= 667
id-E-DCH-FDD-Information-to-Modify ProtocolIE-ID ::= 668
id-E-DCH-MACdFlows-to-Add ProtocolIE-ID ::= 669
id-E-DCH-MACdFlows-to-Delete ProtocolIE-ID ::= 670
id-E-DCH-MACdFlows-to-Modify ProtocolIE-ID ::= 671
id-E-DCH-Resources-Information-AuditRsp ProtocolIE-ID ::= 672
id-E-DCH-Resources-Information-ResourceStatusInd ProtocolIE-ID ::= 673
id-E-DCH-RL-Indication ProtocolIE-ID ::= 674
id-E-DCH-RL-Set-1D ProtocolIE-ID ::= 675
id-E-DPCH-Information-RL-ReconfPrepFDD ProtocolIE-ID ::= 676
id-E-DPCH-Information-RL-SetupRqstFDD ProtocolIE-ID ::= 677
id-E-RGCH-E-HICH-FDD-Code-Information ProtocolIE-ID ::= 678
id-PICH-768-Information-AuditRsp ProtocolIE-ID ::= 733
id-PRACH-768-InformationList-AuditRsp ProtocolIE-ID ::= 734
id-SCH-768-Information-AuditRsp ProtocolIE-ID ::= 735
id-MICH-768-Information-AuditRsp ProtocolIE-ID ::= 736
id-PRACH-768-Information ProtocolIE-ID ::= 737
id-S-CCPCH-768-Information-ResourceStatusInd ProtocolIE-ID ::= 738
id-P-CCPCH-768-Information-ResourceStatusInd ProtocolIE-ID ::= 739
id-PICH-768-Information-ResourceStatusInd ProtocolIE-ID ::= 740
id-PRACH-768-InformationList-ResourceStatusInd ProtocolIE-ID ::= 741
id-SCH-768-Information-ResourceStatusInd ProtocolIE-ID ::= 742
id-MICH-768-Information-ResourceStatusInd ProtocolIE-ID ::= 743
id-S-CCPCH-768-InformationList-ResourceStatusInd ProtocolIE-ID ::= 744
id-UL-DPCH-768-Information-RL-SetupRqstTDD ProtocolIE-ID ::= 745
id-DL-DPCH-768-Information-RL-SetupRqstTDD ProtocolIE-ID ::= 746
id-DL-DPCH-InformationItem-768-RL-AdditionRqstTDD ProtocolIE-ID ::= 747
id-UL-DPCH-InformationItem-768-RL-AdditionRqstTDD ProtocolIE-ID ::= 748
id-DL-DPCH-768-InformationAddItemIE-RL-ReconfPrepTDD ProtocolIE-ID ::= 749
id-DL-DPCH-768-InformationAddListIE-RL-ReconfPrepTDD ProtocolIE-ID ::= 750
id-DL-DPCH-768-InformationModify-AddItem ProtocolIE-ID ::= 751
id-DL-DPCH-768-InformationModify-AddList ProtocolIE-ID ::= 752
id-UL-DPCH-768-Information-RL-AdditionRqstTDD ProtocolIE-ID ::= 753
id-DL-DPCH-768-InformationAddItem-RL-ReconfPrepTDD ProtocolIE-ID ::= 754
id-DL-DPCH-768-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 755
id-DL-DPCH-768-InformationModify-AddItem-RL-ReconfPrepTDD ProtocolIE-ID ::= 756
id-DL-DPCH-768-InformationModify-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 757
id-DL-Timeslot-768-InformationModify-ModifyList-RL-ReconfPrepTDD ProtocolIE-ID ::= 758
id-DPCH-ID768-DM-Rqst ProtocolIE-ID ::= 759
id-multiple-DedicatedMeasurementValueList-768-TDD-DM-Rsp ProtocolIE-ID ::= 760
id-DFCH-768-DM-Rsp ProtocolIE-ID ::= 761
id-Rx-Timing-Deviation-Value-768 ProtocolIE-ID ::= 762
id-DFCH-ID768-DM-Rprt ProtocolIE-ID ::= 763
id-PDSCH-AddInformation-768-PSCCH-ReconfRqst ProtocolIE-ID ::= 764
id-PDSCH-ModifyInformation-768-PSCCH-ReconfRqst ProtocolIE-ID ::= 765
id-PUSCH-AddInformation-768-PSCCH-ReconfRqst ProtocolIE-ID ::= 766
id-PUSCH-ModifyInformation-768-PSCCH-ReconfRqst ProtocolIE-ID ::= 767
id-dl-NS-PDSCH-Timeslot-Information-768-PSCCH-ReconfRqst ProtocolIE-ID ::= 768
id-hs-SCCH-Information-768-PSCCH-ReconfRqst ProtocolIE-ID ::= 769
id-hsSCCH-Specific-Information-ResponseTDD-768 ProtocolIE-ID ::= 770
id-E-DFCH-Information-RL-AdditionRegFDD ProtocolIE-ID ::= 771
id-PDSCH-Timeslot-Format-PSCH-ReconfRqst-LCR ProtocolIE-ID ::= 771
id-PUSCH-Timeslot-Format-PSCH-ReconfRqst-LCR ProtocolIE-ID ::= 772
id-E-DCH-PowerOffset-for-SchedulingInfo ProtocolIE-ID ::= 773
id-HSSICH-Configured-Indicator ProtocolIE-ID ::= 774
id-Rx-Timing-Deviation-Value-384-ext ProtocolIE-ID ::= 775
id-RTPW-CellPortion-ReportingIndicator ProtocolIE-ID ::= 776
id-RTPW-CellPortion-ReportingIndicator ProtocolIE-ID ::= 777
id-Received-Scheduled-EDCH-Power-Share-Value ProtocolIE-ID ::= 778
id-Received-Scheduled-EDCH-Power-Share-ForCellPortion-Value ProtocolIE-ID ::= 779
id-Received-Scheduled-EDCH-Power-Share-Value ProtocolIE-ID ::= 780
id-Received-Scheduled-EDCH-Power-Share-ForCellPortion ProtocolIE-ID ::= 781
id-tPCI-Presence ProtocolIE-ID ::= 782
id-HSSICH-TPC-StepSize ProtocolIE-ID ::= 783
id-E-RUCCH-InformationList-AuditRsp ProtocolIE-ID ::= 784
id-E-RUCCH-InformationList-ResourceStatusInd  ProtocolIE-ID ::= 796
id-E-DCH-TDD-CapacityConsumptionLaw  ProtocolIE-ID ::= 797
id-E-RUCCH-Information  ProtocolIE-ID ::= 798
id-E-DCH-Information  ProtocolIE-ID ::= 799
id-E-DCH-Information-Response  ProtocolIE-ID ::= 800
id-E-DCH-Information-Reconfig  ProtocolIE-ID ::= 801
id-E-FUCH-Information-PSCH-ReconfRqst  ProtocolIE-ID ::= 802
id-Add-To-E-AGCH-Resource-Pool-PSCH-ReconfRqst  ProtocolIE-ID ::= 803
id-Modify-E-AGCH-Resource-Pool-PSCH-ReconfRqst  ProtocolIE-ID ::= 804
id-Delete-From-E-AGCH-Resource-Pool-PSCH-ReconfRqst  ProtocolIE-ID ::= 805
id-E-HICH-Information-PSCH-ReconfRqst  ProtocolIE-ID ::= 806
id-E-HICH-TimeOffset  ProtocolIE-ID ::= 807
id-Maximum-Generated-ReceivedTotalWideBandPowerInOtherCells  ProtocolIE-ID ::= 808
id-E-DCH-Serving-RL-ID  ProtocolIE-ID ::= 809
id-E-RUCCH-768-InformationList-AuditRsp  ProtocolIE-ID ::= 810
id-E-RUCCH-768-InformationList-ResourceStatusInd  ProtocolIE-ID ::= 811
id-E-RUCCH-768-Information  ProtocolIE-ID ::= 812
id-E-DCH-768-Information  ProtocolIE-ID ::= 813
id-E-DCH-768-Information-Reconfig  ProtocolIE-ID ::= 814
id-E-FUCH-Information-768-PSCH-ReconfRqst  ProtocolIE-ID ::= 815
id-Add-To-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst  ProtocolIE-ID ::= 816
id-Modify-E-AGCH-Resource-Pool-768-PSCH-ReconfRqst  ProtocolIE-ID ::= 817
id-E-HICH-Information-768-PSCH-ReconfRqst  ProtocolIE-ID ::= 818
id-ExtendedPropagationDelay  ProtocolIE-ID ::= 819
id-Extended-Round-Trip-Time-Value  ProtocolIE-ID ::= 820
id-AlternativeFormatReportingIndicator  ProtocolIE-ID ::= 821
id-DCH-Indicator-For-E-DCH-HSDPA-Operation  ProtocolIE-ID ::= 822
id-Reference-ReceivedTotalWideBandPowerReporting  ProtocolIE-ID ::= 823
id-Reference-ReceivedTotalWideBandPowerSupportIndicator  ProtocolIE-ID ::= 824
id-ueCapability-Info  ProtocolIE-ID ::= 825
id-MAChs-ResetIndicator  ProtocolIE-ID ::= 826
id-Past-Reconfiguration-Mode  ProtocolIE-ID ::= 827
id-Past-Reconfiguration-Permission  ProtocolIE-ID ::= 828
id-BroadcastReference  ProtocolIE-ID ::= 829
id-BroadcastCommonTransportBearerIndicator  ProtocolIE-ID ::= 830
id-ContinuousPacketConnectivityDTX-DRX-Capability  ProtocolIE-ID ::= 831
id-ContinuousPacketConnectivityTTX-DRX-Information  ProtocolIE-ID ::= 832
id-ContinuousPacketConnectivityHS-SCCH-less-Capability  ProtocolIE-ID ::= 833
id-ContinuousPacketConnectivityHS-SCCH-less-Information  ProtocolIE-ID ::= 834
id-ContinuousPacketConnectivityHS-SCCH-less-Information-Response  ProtocolIE-ID ::= 835
id-CPC-Information  ProtocolIE-ID ::= 836
id-MIMO-Capability  ProtocolIE-ID ::= 837
id-MIMO-PilotConfiguration  ProtocolIE-ID ::= 838
id-MBSFN-Cell-ParameterID-Cell-SetupRqstTDD  ProtocolIE-ID ::= 841
id-MBSFN-Cell-ParameterID-Cell-ReconfRqstTDD  ProtocolIE-ID ::= 842
id-S-CCPCH-Modulation  ProtocolIE-ID ::= 843
id-HS-PDSCH-Code-Change-Grant  ProtocolIE-ID ::= 844
id-HS-PDSCH-Code-Change-Indicator  ProtocolIE-ID ::= 845
id-SYN-UL-Partition-LCR  ProtocolIE-ID ::= 846
id-E-DCH-LCR-Information  ProtocolIE-ID ::= 847
id-E-DCH-LCR-Information-Reconfig  ProtocolIE-ID ::= 848
id-E-FUCH-Information-LCR-PSCH-ReconfRqst  ProtocolIE-ID ::= 852
id-Add-To-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst  ProtocolIE-ID ::= 853
id-Modify-E-AGCH-Resource-Pool-LCR-PSCH-ReconfRqst  ProtocolIE-ID ::= 854
id-Add-To-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst ProtocolIE-ID ::= 855
id-Modify-E-HICH-Resource-Pool-LCR-PSCH-ReconfRqst ProtocolIE-ID ::= 856
id-Delete-From-E-HICH-Resource-Pool-PSCH-ReconfRqst ProtocolIE-ID ::= 857
id-E-HICH-TimeOffsetLCR ProtocolIE-ID ::= 858
id-SixtyFourQAM-DL-Capability ProtocolIE-ID ::= 860
id-SixteenQAM-UL-Capability ProtocolIE-ID ::= 861
id-HSDSCH-MACdPDU-SizeCapability ProtocolIE-ID ::= 864
id-HSDSCH-MACdPDUSizeFormat ProtocolIE-ID ::= 865
id-MaximumMACdPDU-SizeExtended ProtocolIE-ID ::= 866
id-F-DPCH-SlotFormat ProtocolIE-ID ::= 870
id-F-DPCH-SlotFormatCapability ProtocolIE-ID ::= 871
id-LCXTDدد-uplink-Physical-Channel-Capability ProtocolIE-ID ::= 872
id-Extended-RNC-ID ProtocolIE-ID ::= 873
id-Max-UE-DTX-Cycle ProtocolIE-ID ::= 874
id-Secondary-CCPCH-SlotFormat-Extended ProtocolIE-ID ::= 876
id-MBSFPN-Only-Mode-Indicator-Cell-SetupRqstTDD-LCR ProtocolIE-ID ::= 878
id-MBSFPN-Only-Mode-Capability ProtocolIE-ID ::= 879
id-Time-Slot-Parameter-ID ProtocolIE-ID ::= 880
id-Additional-failed-HS-SICH ProtocolIE-ID ::= 881
id-Additional-missed-HS-SICH ProtocolIE-ID ::= 882
id-Additional-total-HS-SICH ProtocolIE-ID ::= 883
id-Additional-HS-SICH-Reception-Quality-Measurement-Value ProtocolIE-ID ::= 884
id-GANSS-Common-Data ProtocolIE-ID ::= 887
id-GANSS-Information ProtocolIE-ID ::= 888
id-GANSS-Generic-Data ProtocolIE-ID ::= 889
id-TUTRANGANSSMeasurementThresholdInformation ProtocolIE-ID ::= 890
id-TUTRANGANSSMeasurementValueInformation ProtocolIE-ID ::= 891
id-ModulationPO-MBSFN ProtocolIE-ID ::= 892
id-Enhanced-FACH-Capability ProtocolIE-ID ::= 895
id-Enhanced-FH-Capability ProtocolIE-ID ::= 896
id-HSDSCH-Common-System-InformationFDD ProtocolIE-ID ::= 897
id-HSDSCH-Common-System-Information-ResponseFDD ProtocolIE-ID ::= 898
id-HSDSCH-Paging-System-InformationFDD ProtocolIE-ID ::= 899
id-HSDSCH-Paging-System-Information-ResponseFDD ProtocolIE-ID ::= 900
id-MBMS-Capability ProtocolIE-ID ::= 901
id-Ext-Reference-E-TPC-PO ProtocolIE-ID ::= 902
id-Ext-Max-Bits-MACe-PDU-non-scheduled ProtocolIE-ID ::= 903
id-HARQ-MemoryPartitioningInfoExtForMIMO ProtocolIE-ID ::= 904
id-MIMO-ActivationIndicator ProtocolIE-ID ::= 905
id-MIMO-Mode-Indicator ProtocolIE-ID ::= 906
id-MIMO-N-M-Ratio ProtocolIE-ID ::= 907
id-IMulticastIndication ProtocolIE-ID ::= 908
id-IMulticastDataBearerIndication ProtocolIE-ID ::= 909
id-TransportBearerNotSetupIndicator ProtocolIE-ID ::= 910
id-TransportBearerNotRequestedIndicator ProtocolIE-ID ::= 911
id-TimeslotConfigurationList-LCR-CTCH-SetupRqstTDD ProtocolIE-ID ::= 912
id-Cell-Frequency-List-Information-LCR-MulFreq-AuditRsp ProtocolIE-ID ::= 913
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-AuditRsp ProtocolIE-ID ::= 914
id-Cell-Frequency-List-Information-LCR-MulFreq-Cell-SetupRqstTDD ProtocolIE-ID ::= 915
id-UARFCN-Adjustment ProtocolIE-ID ::= 916
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd ProtocolIE-ID ::= 917
id-Cell-Frequency-List-InformationItem-LCR-MulFreq-ResourceStatusInd ProtocolIE-ID ::= 918
id-UPPCPositionLCR ProtocolIE-ID ::= 919
id-UPPC-MLCR-Parameters-CTCH-ReconfRqstTDD ProtocolIE-ID ::= 920
id-UPPCH-LCR-InformationList-AuditRsp
id-UPPCH-LCR-InformationItem-AuditRsp
id-UPPCH-LCR-InformationList-ResourceStatusInd
id-UPPCH-LCR-InformationItem-ResourceStatusInd
id-multipleFreq-dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
id-number-Of-Supported-Carriers
id-multipleFreq-UL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst
id-multicarrier-Number
id-Extended-HS-SCCH-ID
id-Extended-HS-SICH-ID
id-HS-SICH-InfoExt-DM-Rqst
id-Delete-From-HS-SCCH-Resource-PoolExt-PSCH-ReconfRqst
id-HS-SCCH-InformationExt-LCR-PSCH-ReconfRqst
id-HS-SCCH-InformationModifyExt-LCR-PSCH-ReconfRqst
id-PowerControlGAP
id-MBSFN-SpecialTimeSlot-LCR
id-Common-MACFlows-to-DeleteFDD
id-Paging-MACFlows-to-DeleteFDD
id-E-TFCI-Boost-Information
id-SixteenQAM-UL-Operation-Indicator
id-SixtyfourQAM-UsageAllowedIndicator
id-SixtyfourQAM-DL-UsageIndicator
id-Default-Serving-Grant-in-DTX-Cycle2
id-Maximum-Target-ReceivedTotalWideBandPower-LCR
id-E-DFDCH-PowerInterpolation
id-Extended-B-DCH-LCR-LCR-PhysicalLayerCategory
id-MultipleFreq-E-DCH-Resources-InformationList-AuditRsp
id-MultipleFreq-E-DCH-Resources-InformationList-ResourceStatusInd
id-MultipleFreq-E-PUCCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst
id-MultipleFreq-E-PUCCH-Timeslot-InformationList-LCR-PSCH-ReconfRqst
id-MultipleFreq-E-HICH-ID-TDD
id-ContinuousPacketConnectivityHS-SCCH-less-Deactivate-Indicator
id-E-DCH-MACdPDU-SizeCapability
id-E-DCH-MACdPDUSizeFormat
id-MaximumNumberOfRetransmission-for-Scheduling-Info-LCR-TDD
id-E-DCH-RetransmissionTimer-for-SchedulingInfo-LCR-TDD
id-E-HICH-TimeOffset-Extension
id-MultipleFreq-E-HICH-TimeOffsetLCR
id-E-FCH-PowerControlGAP
id-HS-DCH-TBS-SizeTableIndicator
id-E-DCH-DL-Control-Channel-Change-Information
id-E-DCH-DL-Control-Channel-Grant-Information
id-DGANSS-Corrections-Req
id-UE-with-enhanced-HS-SCCH-support-indicator
id-AdditionalTimeSlotListLCR
id-AdditionalMeasurementValueList
id-E-AGCH-Table-Choice
id-PLCCH-parameters
id-E-RUCCH-parameters  ProtocolIE-ID ::= 982
id-E-RUCCH-768-parameters  ProtocolIE-ID ::= 983
id-HS-Cause  ProtocolIE-ID ::= 984
id-E-Cause  ProtocolIE-ID ::= 985
id-Common-EDCH-Capability  ProtocolIE-ID ::= 987
id-E-AI-Capability  ProtocolIE-ID ::= 988
id-Common-EDCH-System-InformationFDD  ProtocolIE-ID ::= 989
id-Common-UL-MACFlows-to-DeleteFDD  ProtocolIE-ID ::= 990
id-Common-EDCH-MACdFlows-to-DeleteFDD  ProtocolIE-ID ::= 991
id-Common-EDCH-System-Information-ResponseFDD  ProtocolIE-ID ::= 992
id-Cell-ERNTI-Status-Information  ProtocolIE-ID ::= 993
id-Enhanced-UE-DRX-Capability  ProtocolIE-ID ::= 994
id-TransportBearerRequestIndicator  ProtocolIE-ID ::= 996
id-SixtyFourQAM-DL-MIMO-Combined-Capability  ProtocolIE-ID ::= 997
id-E-RNTI  ProtocolIE-ID ::= 998
id-MinimumReducedE-DPCH-GainFactor  ProtocolIE-ID ::= 999
id-GANSS-Time-ID  ProtocolIE-ID ::= 1000
id-GANSS-AddIonoModelReq  ProtocolIE-ID ::= 1001
id-GANSS-AddUTCModelsReq  ProtocolIE-ID ::= 1002
id-GANSS-AddNavigationModelsReq  ProtocolIE-ID ::= 1003
id-GANSS-AddUTCModelsReq  ProtocolIE-ID ::= 1004
id-GANSS-AuxInfoReq  ProtocolIE-ID ::= 1005
id-GANSS-EBAS-ID  ProtocolIE-ID ::= 1006
id-GANSS-ID  ProtocolIE-ID ::= 1007
id-GANSS-Additional-Ionospheric-Model  ProtocolIE-ID ::= 1008
id-GANSS-Earth-Orientation-Parameters  ProtocolIE-ID ::= 1009
id-GANSS-Additional-Time-Models  ProtocolIE-ID ::= 1010
id-GANSS-Additional-Navigation-Models  ProtocolIE-ID ::= 1011
id-GANSS-Additional-UTC-Models  ProtocolIE-ID ::= 1012
id-GANSS-Auxiliary-Information  ProtocolIE-ID ::= 1013
id-ERACH-CM-Rqst  ProtocolIE-ID ::= 1014
id-ERACH-CM-Rep  ProtocolIE-ID ::= 1015
id-ERACH-CM-Rprt  ProtocolIE-ID ::= 1016
id-EDCH-RACH-Report-Value  ProtocolIE-ID ::= 1017
id-EDCH-RACH-Report-IncrDecrThres  ProtocolIE-ID ::= 1018
id-EDCH-RACH-Report-ThresholdInformation  ProtocolIE-ID ::= 1019
id-E-DPCCH-Power-Boosting-Capability  ProtocolIE-ID ::= 1020
id-HSDSCH-Common-System-InformationLCR  ProtocolIE-ID ::= 1021
id-HSDSCH-Common-System-Information-ResponseLCR  ProtocolIE-ID ::= 1022
id-HSDSCH-Paging-System-InformationLCR  ProtocolIE-ID ::= 1023
id-HSDSCH-Paging-System-Information-ResponseLCR  ProtocolIE-ID ::= 1024
id-Common-MACFlows-to-DeleteLCR  ProtocolIE-ID ::= 1025
id-Paging-MACFlows-to-DeleteLCR  ProtocolIE-ID ::= 1026
id-Common-EDCH-System-InformationLCR  ProtocolIE-ID ::= 1027
id-Common-UL-MACFlows-to-DeleteLCR  ProtocolIE-ID ::= 1028
id-Common-EDCH-MACdFlows-to-DeleteLCR  ProtocolIE-ID ::= 1029
id-Common-EDCH-System-Information-ResponseLCR  ProtocolIE-ID ::= 1030
id-Enhanced-UE-DRX-CapabilityLCR  ProtocolIE-ID ::= 1031
id-Enhanced-UE-DRX-InformationLCR  ProtocolIE-ID ::= 1032
id-HSDSCH-PreconfigurationSetup  ProtocolIE-ID ::= 1033
id-HSDSCH-PreconfigurationInfo  ProtocolIE-ID ::= 1034
id-NoOfTargetCellHS-SCCH-Order  ProtocolIE-ID ::= 1035
id-EnhancedHSservingCC-Abort  ProtocolIE-ID ::= 1036
id-Additional-HS-Cell-Information-RL-Setup ProtocolIE-ID ::= 1037
id-Additional-HS-Cell-Information-Response ProtocolIE-ID ::= 1038
id-Additional-HS-Cell-Information-RL-Addition ProtocolIE-ID ::= 1039
id-Additional-HS-Cell-Change-Information-Response ProtocolIE-ID ::= 1040
id-Additional-HS-Cell-Information-RL-Reconf-Prep ProtocolIE-ID ::= 1041
id-Additional-HS-Cell-Information-RL-Reconf-Req ProtocolIE-ID ::= 1042
id-Additional-HS-Cell-Information-RL-Param-Upd ProtocolIE-ID ::= 1043
id-Multi-Cell-Capability-Info ProtocolIE-ID ::= 1044
id-IMB-Parameters ProtocolIE-ID ::= 1045
id-MACes-Maximum-Bitrate-LCR ProtocolIE-ID ::= 1046
id-Semi-PersistentScheduling-CapabilityLCR ProtocolIE-ID ::= 1047
id-E-DCH-Semi-PersistentScheduling-Information-LCR ProtocolIE-ID ::= 1048
id-HS-DSCH-Semi-PersistentScheduling-Information-LCR ProtocolIE-ID ::= 1049
id-Add-To-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst ProtocolIE-ID ::= 1050
id-Modify-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst ProtocolIE-ID ::= 1051
id-Delete-From-Non-HS-SCCH-Associated-HS-SICH-Resource-Pool-LCR-PSCH-ReconfRqst ProtocolIE-ID ::= 1052
id-ContinuousPacketConnectivity-DRX-CapabilityLCR ProtocolIE-ID ::= 1053
id-ContinuousPacketConnectivity-DRX-InformationLCR ProtocolIE-ID ::= 1054
id-ContinuousPacketConnectivity-DRX-Information-ResponseLCR ProtocolIE-ID ::= 1055
id-CPC-InformationLCR ProtocolIE-ID ::= 1056
id-HS-DSCH-Semi-PersistentScheduling-Information-ResponseLCR ProtocolIE-ID ::= 1057
id-E-DCH-Semi-PersistentScheduling-Information-ResponseLCR ProtocolIE-ID ::= 1058
id-E-AGCH-UE-Inactivity-Monitor-Threshold ProtocolIE-ID ::= 1059
id-IdleIntervalInformation ProtocolIE-ID ::= 1063
id-GANSS-alm-keplerianNAVAlmanac ProtocolIE-ID ::= 1064
id-GANSS-alm-keplerianReducedAlmanac ProtocolIE-ID ::= 1065
id-GANSS-alm-keplerianMidAlmanac ProtocolIE-ID ::= 1066
id-GANSS-alm-keplerianGLONASS ProtocolIE-ID ::= 1067
id-GANSS-alm-ecfSBASAlmanac ProtocolIE-ID ::= 1068
id-HSSICH-ReferenceSignal-InformationLCR ProtocolIE-ID ::= 1070
id-MIMO-ReferenceSignal-InformationListLCR ProtocolIE-ID ::= 1071
id-MIMO-SFMode-For-HSPDSCHDualStream ProtocolIE-ID ::= 1072
id-MIMO-SFMode-Supported-For-HSPDSCHDualStream ProtocolIE-ID ::= 1073
id-UE-Selected-MBMS-Service-Information ProtocolIE-ID ::= 1074
id-MultiCarrier-HSDSCH-Physical-Layer-Category ProtocolIE-ID ::= 1077
id-Common-E-DCH-HSDPDCCH-Capability ProtocolIE-ID ::= 1078
id-DL-RLC-PDU-Size-Format ProtocolIE-ID ::= 1079
id-HSSICH-ReferenceSignal-InformationModifyLCR ProtocolIE-ID ::= 1080
id-schedulingPriorityIndicator ProtocolIE-ID ::= 1081
id-TimeslotMeasurementValueListLCR ProtocolIE-ID ::= 1082
id-UE-SupportIndicatorExtension ProtocolIE-ID ::= 1085
id-Single-Stream-MIMO-ActivationIndicator ProtocolIE-ID ::= 1088
id-Single-Stream-MIMO-Capability ProtocolIE-ID ::= 1089
id-Single-Stream-MIMO-Mode-Indicator ProtocolIE-ID ::= 1090
id-Dual-Band-Capability-Info ProtocolIE-ID ::= 1091
id-UE-AggregateMaximumBitRate ProtocolIE-ID ::= 1092
id-UE-AggregateMaximumBitRate-Enforcement-Indicator ProtocolIE-ID ::= 1093
id-MIMO-Power-Offset-For-S-CPICH-Capability ProtocolIE-ID ::= 1101
id-MIMO-PilotConfigurationExtension ProtocolIE-ID ::= 1102
id-TxDiversityOnDLControlChannelsByMIMOUECapability ProtocolIE-ID ::= 1103
id-ULTimeslotISCPValue-For-CellPortion ProtocolIE-ID ::= 1104
id-UpPTSInterferenceValue-For-CellPortion ProtocolIE-ID ::= 1105
id-Best-Cell-Portions-ValueLCR ProtocolIE-ID ::= 1106
id-Transmitted-Carrier-Power-For-CellPortion-ValueLCR ProtocolIE-ID ::= 1107
id-Received-total-wide-band-power-For-CellPortion-ValueLCR ProtocolIE-ID ::= 1108
id-UL-TimeslotTSCP-For-CellPortion-Value ProtocolIE-ID ::= 1109
id-HS-DSCHRequiredPowerValueInformation-For-CellPortionLCR ProtocolIE-ID ::= 1110
id-HS-DSCHProvidedBitRateValueInformation-For-CellPortionLCR ProtocolIE-ID ::= 1111
id-E-DCHProvidedBitRateValueInformation-For-CellPortion ProtocolIE-ID ::= 1112
id-UpPTSInterference-For-CellPortion-Value ProtocolIE-ID ::= 1113
id-NumberOfReportedCellPortionsLCR ProtocolIE-ID ::= 1114
id-CellPortion-CapabilityLCR ProtocolIE-ID ::= 1115
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCH-E-AGCHorE-HICHTransmissionCellPortionValue ProtocolIE-ID ::= 1116
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCH-HS-SCH-E-AGCHorE-HICHTransmissionCellPortion ProtocolIE-ID ::= 1117
id-ActivationInformation ProtocolIE-ID ::= 1119
id-Additional-EDCH-Cell-Information-RL-Setup-Req ProtocolIE-ID ::= 1120
id-Additional-EDCH-Cell-Information-Response ProtocolIE-ID ::= 1121
id-Additional-EDCH-Cell-Information-RL-Add-Req ProtocolIE-ID ::= 1122
id-Additional-EDCH-Cell-Information-Response-RL-Add ProtocolIE-ID ::= 1123
id-Additional-EDCH-Cell-Information-RL-Reconf-Prep ProtocolIE-ID ::= 1124
id-Additional-EDCH-Cell-Information-RL-Reconf-Req ProtocolIE-ID ::= 1125
id-Additional-EDCH-Cell-Information-Bearer-Rearrangement ProtocolIE-ID ::= 1126
id-Additional-EDCH-Cell-Information-RL-Param-Upd ProtocolIE-ID ::= 1127
id-Additional-EDCH-Preconfiguration-Information ProtocolIE-ID ::= 1128
id-EDCH-Indicator ProtocolIE-ID ::= 1129
id-HS-DSCH-SPS-Reservation-Indicator ProtocolIE-ID ::= 1131
id-E-DCH-SPS-Reservation-Indicator ProtocolIE-ID ::= 1132
id-MultipleFreq-HARQ-MemoryPartitioning-InformationList ProtocolIE-ID ::= 1133
id-UL-common-E-DCH-MACflow-Specific-InfoResponseListLCR-Ext ProtocolIE-ID ::= 1134
id-RepetitionPeriodIndex ProtocolIE-ID ::= 1135
id-MidambleShiftLCR ProtocolIE-ID ::= 1136
id-MaxHSDSCH-HSSCCH-Power-per-CELLPORTION ProtocolIE-ID ::= 1137
id-DormantModeIndicator ProtocolIE-ID ::= 1138
id-DiversityMode ProtocolIE-ID ::= 1139
id-TransmitDiversityIndicator ProtocolIE-ID ::= 1140
id-NonCellSpecificTXDiversity ProtocolIE-ID ::= 1141
id-Cell-Capability-Container ProtocolIE-ID ::= 1142
id-E-RNTI-List-Request ProtocolIE-ID ::= 1143
id-E-RNTI-List ProtocolIE-ID ::= 1144
id-PowerControlGAP-For-CellFACHLCR ProtocolIE-ID ::= 1145
id-UL-Synchronisation-Parameters-For-FACHLCR ProtocolIE-ID ::= 1147
id-HS-DSCH-SPS-Operation-Indicator ProtocolIE-ID ::= 1148
id-HS-DSCH-RNTI-For-FACH ProtocolIE-ID ::= 1149
id-E-RNTI-For-FACH ProtocolIE-ID ::= 1150
id-Out-of-Synchronisation-Window ProtocolIE-ID ::= 1151
id-Out-of-Synchronisation-Window ProtocolIE-ID ::= 1152
id-Out-of-Synchronisation-Window ProtocolIE-ID ::= 1153
id-HSSCCH-TFC-StepSize ProtocolIE-ID ::= 1154
id-TS0-CapabilityLCR ProtocolIE-ID ::= 1155
id-UB-TS0-CapabilityLCR ProtocolIE-ID ::= 1156
id-Common-System-Information-ResponseLCR ProtocolIE-ID ::= 1157
id-Additional-EDCH-Cell-Information-ResponseRLReconf ProtocolIE-ID ::= 1158
id-Multicell-EDCH-InformationItemIEs ProtocolIE-ID ::= 1159
id-Multicell-EDCH-RL-Specific-InformationItemIEs ProtocolIE-ID ::= 1160
id-Initial-DL-Transmission-Power ProtocolIE-ID ::= 1164
id-Maximum-DL-Power            ProtocolIE-ID ::= 1165
id-Minimum-DL-Power             ProtocolIE-ID ::= 1166
id-DCH-MeasurementOccasion-Information ProtocolIE-ID ::= 1167
id-AssociatedPhysicalChannelID  ProtocolIE-ID ::= 1168
id-DGNSS-ValidityPeriod         ProtocolIE-ID ::= 1169
id-PhysicalChannelID-for-CommonERNTI-RequestedIndicator ProtocolIE-ID ::= 1170
id-PrecodingWeightSetRestriction ProtocolIE-ID ::= 1171
id-Treset-Usage-Indicator        ProtocolIE-ID ::= 1172
id-Non-Serving-RL-Preconfig-Info ProtocolIE-ID ::= 1173
id-Non-Serving-RL-Preconfig-Setup ProtocolIE-ID ::= 1174
id-Non-Serving-RL-Preconfig-Removal ProtocolIE-ID ::= 1175
id-Additional-E-DCH-Non-Serving-RL-Preconfiguration-Setup ProtocolIE-ID ::= 1176
id-U1-common-E-DCH-MACflow-Specific-InfoListLCR-Ext ProtocolIE-ID ::= 1178
id-CommonMACFlow-Specific-InfoListResponseLCR-Ext ProtocolIE-ID ::= 1179
id-Enabling-Delay-Ext-LCR       ProtocolIE-ID ::= 1180
id-HS-SCCH-Inactivity-Threshold-for-UE-DRX-Cycle-LCR-Ext ProtocolIE-ID ::= 1195
id-Adaptive-Special-Burst-Power-CapabilityLCR ProtocolIE-ID ::= 1196

9.3.7 Container Definitions

```
-- ******************************************************
-- IE parameter types from other modules.
-- ******************************************************

IMPORTS
  maxProtocolExtensions,
  maxPrivateIEs,
  maxProtocolIEs,
  Criticality,
  Presence,
  PrivateIE-ID,
  ProtocolIE-ID
FROM NBAP-CommonDataTypes;
```

```
```
-- Class Definition for Protocol IEs
-- ************************************************************

NBAP-PROTOCOL-IE ::= CLASS {
    &id ProtocolIE-ID    UNIQUE,
    &criticality Criticality,
    &Value,
    &presence Presence
}
WITH SYNTAX {
    ID  &id
    CRITICALITY &criticality
    TYPE  &Value
    PRESENCE &presence
}

-- Class Definition for Protocol IEs
-- ************************************************************

NBAP-PROTOCOL-IE-PAIR ::= CLASS {
    &id   ProtocolIE-ID    UNIQUE,
    &firstCriticality Criticality,
    &FirstValue,
    &secondCriticality Criticality,
    &SecondValue,
    &presence  Presence
}
WITH SYNTAX {
    ID   &id
    FIRST CRITICALITY &firstCriticality
    FIRST TYPE  &FirstValue
    SECOND CRITICALITY &secondCriticality
    SECOND TYPE  &SecondValue
    PRESENCE  &presence
}

-- Class Definition for Protocol Extensions
-- ************************************************************

NBAP-PROTOCOL-EXTENSION ::= CLASS {
    &id  ProtocolIE-ID   UNIQUE,
    &criticality Criticality,  &Extension,
    &presence  Presence
}
WITH SYNTAX {
    ID   &id
    CRITICALITY &criticality
    TYPE  &Extension
    PRESENCE  &presence
}
-- Class Definition for Private IEs

-- ************************************************************

NBAP-PRIVATE-IES ::= CLASS {
    &id  PrivateIE-ID,
    &criticality Criticality,
    &Value,
    &presence Presence
}
WITH SYNTAX {
    ID &id
    CRITICALITY &criticality
    TYPE &Value
    PRESENCE &presence
}

-- Container for Protocol IEs

-- ************************************************************

ProtocolIE-Container {NBAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE (SIZE (0..maxProtocolIEs)) OF ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Single-Container {NBAP-PROTOCOL-IES : IEsSetParam} ::= ProtocolIE-Field {{IEsSetParam}}

ProtocolIE-Field {NBAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {
    id  NBAP-PROTOCOL-IES.&id  ({IEsSetParam}@id),
    criticality NBAP-PROTOCOL-IES.&criticality ({IEsSetParam}@id),
    value  NBAP-PROTOCOL-IES.&Value  ({IEsSetParam}@id)
}

-- Container for Protocol IE Pairs

-- ************************************************************

ProtocolIE-ContainerPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE (SIZE (0..maxProtocolIEs)) OF ProtocolIE-FieldPair {{IEsSetParam}}
ProtocolIE-FieldPair {NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE {
    id NBAP-PROTOCOL-IES-PAIR.&id {{IEsSetParam}},
    firstCriticality NBAP-PROTOCOL-IES-PAIR.&firstCriticality {{IEsSetParam}@id}),
    firstValue NBAP-PROTOCOL-IES-PAIR.&firstValue {{IEsSetParam}@id}),
    secondCriticality NBAP-PROTOCOL-IES-PAIR.&secondCriticality {{IEsSetParam}@id}),
    secondValue NBAP-PROTOCOL-IES-PAIR.&SecondValue {{IEsSetParam}@id})
}

-- Container Lists for Protocol IE Containers
--

ProtocolIE-ContainerList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE (SIZE (lowerBound..upperBound)) OF ProtocolIE-Container {{IEsSetParam}}

ProtocolIE-ContainerPairList {INTEGER : lowerBound, INTEGER : upperBound, NBAP-PROTOCOL-IES-PAIR : IEsSetParam} ::= SEQUENCE (SIZE (lowerBound..upperBound)) OF ProtocolIE-ContainerPair {{IEsSetParam}}

-- Container for Protocol Extensions
--


ProtocolExtensionField {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::= SEQUENCE {
    id NBAP-PROTOCOL-EXTENSION.&id {{ExtensionSetParam}},
    criticality NBAP-PROTOCOL-EXTENSION.&criticality {{ExtensionSetParam}@id}),
    extensionValue NBAP-PROTOCOL-EXTENSION.&Extension {{ExtensionSetParam}@id})
}

-- Container for Private IEs
--

PrivateIE-Container {NBAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE (SIZE (1..maxPrivateIEs)) OF PrivateIE-Field {{IEsSetParam}}

PrivateIE-Field {NBAP-PRIVATE-IES : IEsSetParam} ::= SEQUENCE {
    id NBAP-PRIVATE-IES.&id {{IEsSetParam}},
    criticality NBAP-PRIVATE-IES.&criticality {{IEsSetParam}@id}),
    value NBAP-PRIVATE-IES.&Value
9.4 Message Transfer Syntax

NBAP shall use the ASN.1 Basic Packed Encoding Rules (BASIC-PER) Aligned Variant as transfer syntax as specified in ref. [11].

9.5 Timers

\[ T_{\text{Preempt}} \]
- Specifies the maximum time that a Node B may wait for pre-emption of resources for establishment or reconfiguration of Radio Links.

10 Handling of Unknown, Unforeseen and Erroneous Protocol Data

10.1 General

Protocol Error cases can be divided into three classes:

- Transfer Syntax Error
- Abstract Syntax Error
- Logical Error

Protocol errors can occur in the following functions within a receiving node:

```
<table>
<thead>
<tr>
<th>Logical Errors</th>
<th>Abstract Syntax Errors</th>
<th>Transfer Syntax Errors</th>
</tr>
</thead>
<tbody>
<tr>
<td>NBAP functional entity</td>
<td>ASN.1 Decoding</td>
<td></td>
</tr>
</tbody>
</table>
```

**Figure 38: Protocol Errors in NBAP.**

The information stated in subclauses 10.2, 10.3 and 10.4, to be included in the message used when reporting an error, is what at minimum shall be included. Other optional information elements within the message may also be included, if available. This is also valid for the case when the reporting is done with a response message. The latter is an exception to what is stated in subclause 4.1.

10.2 Transfer Syntax Error

A Transfer Syntax Error occurs when the receiver is not able to decode the received physical message. Transfer syntax errors are always detected in the process of ASN.1 decoding. If a Transfer Syntax Error occurs, the receiver should initiate Error Indication procedure with appropriate cause value for the Transfer Syntax protocol error.

Examples for Transfer Syntax Errors are:

- Violation of value ranges in ASN.1 definition of messages. e.g.: If an IE has a defined value range of 0 to 10 (ASN.1: INTEGER (0..10)), and 12 will be received, then this will be treated as a transfer syntax error.
- Violation in list element constraints. e.g.: If a list is defined as containing 1 to 10 elements, and 12 elements will be received, than this case will be handled as a transfer syntax error.
- Missing mandatory elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).
- Wrong order of elements in ASN.1 SEQUENCE definitions (as sent by the originator of the message).

10.3 Abstract Syntax Error

10.3.1 General

An Abstract Syntax Error occurs when the receiving functional NBAP entity:

1. receives IEs or IE groups that cannot be understood (unknown id);
2. receives IEs for which the logical range is violated (e.g.: ASN.1 definition: 0 to 15, the logical range is 0 to 10 (values 11 to 15 are undefined), and 12 will be received; this case will be handled as an abstract syntax error using criticality information sent by the originator of the message);
3. does not receive IEs or IE groups but according to the specified presence of the concerned object, the IEs or IE groups should have been present in the received message;
4. receives IEs or IE groups that are defined to be part of that message in wrong order or with too many occurrences of the same IE or IE group;
5. receives IEs or IE groups but according to the conditional presence of the concerned object and the specified condition, the IEs or IE groups should not have been present in the received message.

Cases 1 and 2 (not comprehended IE/IE group) are handled based on received Criticality information. Case 3 (missing IE/IE group) is handled based on Criticality information and Presence information for the missing IE/IE group specified in the version of the specification used by the receiver. Case 4 (IEs or IE groups in wrong order or with too many occurrences) and Case 5 (erroneously present conditional IEs or IE groups) result in rejecting the procedure.

If an Abstract Syntax Error occurs, the receiver shall read the remaining message and shall then for each detected Abstract Syntax Error that belong to cases 1-3 act according to the Criticality Information and Presence Information for the IE/IE group due to which Abstract Syntax Error occurred in accordance with subclauses 10.3.4 and 10.3.5. The handling of cases 4 and 5 is specified in subclause 10.3.6.

10.3.2 Criticality Information

In the NBAP messages there is criticality information set for individual IEs and/or IE groups. This criticality information instructs the receiver how to act when receiving an IE or an IE group that is not comprehended, i.e. the entire item (IE or IE group) which is not (fully or partially) comprehended shall be treated in accordance with its own criticality information as specified in subclause 10.3.4.

In addition, the criticality information is used in case of the missing IE/IE group abstract syntax error (see subclause 10.3.5).

The receiving node shall take different actions depending on the value of the Criticality Information. The three possible values of the Criticality Information for an IE/IE group are:

- Reject IE
- Ignore IE and Notify Sender
- Ignore IE

The following rules restrict when a receiving entity may consider an IE, an IE group or an EP not comprehended (not implemented), and when action based on criticality information is applicable:

1. IE or IE group: When one new or modified IE or IE group is implemented for one EP from a standard version, then other new or modified IEs or IE groups specified for that EP in that standard version shall be considered comprehended by the receiving entity (some may still remain unsupported).
2. EP: The comprehension of different EPs within a standard version or between different standard versions is not mandated. Any EP that is not supported may be considered not comprehended, even if another EP from that standard version is comprehended, and action based on criticality shall be applied.

10.3.3 Presence Information

For many IEs/IE groups which are optional according to the ASN.1 transfer syntax, NBAP specifies separately if the presence of these IEs/IE groups is optional or mandatory with respect to RNS application by means of the presence field of the concerned object of class NBAP-PROTOCOL-IES, NBAP-PROTOCOL-IES-PAIR, NBAP-PROTOCOL-EXTENSION or NBAP-PRIVATE-IES.

The presence field of the indicated classes supports three values:
- Optional;
- Conditional;
- Mandatory.

If an IE/IE group is not included in a received message and the presence of the IE/IE group is mandatory or the presence is conditional and the condition is true according to the version of the specification used by the receiver, an abstract syntax error occurs due to a missing IE/IE group.

If an IE/IE group is included in a received message and the presence of the IE/IE group is conditional and the condition is false according to the version of the specification used by the receiver, an abstract syntax error occurs due to this erroneously present conditional IE/IE group.

10.3.4 Not comprehended IE/IE group

10.3.4.1 Procedure ID

The receiving node shall treat the different types of received criticality information of the Procedure ID according to the following:

Reject IE:
- If a message is received with a Procedure ID marked with "Reject IE" which the receiving node does not comprehend, the receiving node shall reject the procedure using the Error Indication procedure.

Ignore IE and Notify Sender:
- If a message is received with a Procedure ID marked with "Ignore IE and Notify Sender" which the receiving node does not comprehend, the receiving node shall ignore the procedure and initiate the Error Indication procedure.

Ignore IE:
- If a message is received with a Procedure ID marked with "Ignore IE" which the receiving node does not comprehend, the receiving node shall ignore the procedure.

When using the Error Indication procedure to reject a procedure or to report an ignored procedure it shall include the Procedure ID IE, the Triggering Message IE, and the Procedure Criticality IE in the Criticality Diagnostics IE.

10.3.4.1A Type of Message

When the receiving node cannot decode the Type of Message IE, the Error Indication procedure shall be initiated with an appropriate cause value.

10.3.4.2 IEs Other Than the Procedure ID and Type of Message

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the Procedure ID IE and Type of Message IE according to the following:
Reject IE:

- If a message initiating a procedure is received containing one or more IEs/IE groups marked with "Reject IE" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.

- If a message initiating a procedure that does not have a message to report unsuccessful outcome is received containing one or more IEs/IE groups marked with "Reject IE" which the receiving node does not comprehend, the receiving node shall terminate the procedure and initiate the Error Indication procedure.

- If a response message is received containing one or more IEs/IE groups marked with "Reject IE" that the receiving node does not comprehend, the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

Ignore IE and Notify Sender:

- If a message initiating a procedure is received containing one or more IEs/IE groups marked with "Ignore IE and Notify Sender" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups and report in the response message of the procedure that one or more IEs/IE groups have been ignored. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the response message, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.

- If a message initiating a procedure that does not have a message to report the outcome of the procedure is received containing one or more IEs/IE groups marked with "Ignore IE and Notify Sender" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and initiate the Error Indication procedure to report that one or more IEs/IE groups have been ignored.

- If a response message is received containing one or more IEs/IE groups marked with "Ignore IE and Notify Sender" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups and initiate the Error Indication procedure.

Ignore IE:

- If a message initiating a procedure is received containing one or more IEs/IE groups marked with "Ignore IE" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

- If a response message is received containing one or more IEs/IE groups marked with "Ignore IE" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using the understood IEs/IE groups.

When reporting not comprehended IEs/IE groups marked with "Reject IE" or "Ignore IE and Notify Sender" using a response message defined for the procedure, the Information Element Criticality Diagnostics IE shall be included in the Criticality Diagnostics IE for each reported IE/IE group. In the Information Element Criticality Diagnostics IE the Repetition Number IE shall be included and in addition, if the not comprehended IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the Message Structure IE shall be included.

When reporting not comprehended IEs/IE groups marked with "Reject IE" or "Ignore IE and Notify Sender" using the Error Indication procedure, the Procedure ID IE, the Triggering Message IE, Procedure Criticality IE, the Transaction ID IE, and the Information Element Criticality Diagnostics IE shall be included in the Criticality Diagnostics IE for each reported IE/IE group. In the Information Element Criticality Diagnostics IE the Repetition Number IE shall be
10.3.5 Missing IE or IE Group

The receiving node shall treat the missing IE/IE group according to the criticality information for the missing IE/IE group in the received message specified in the version of this specification used by the receiver:

Reject IE:

1. If a received message initiating a procedure is missing one or more IEs/IE groups with specified criticality "Reject IE"; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the missing IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.

- If a received message initiating a procedure that does not have a message to report unsuccessful outcome is missing one or more IEs/IE groups with specified criticality "Reject IE", the receiving node shall terminate the procedure and initiate the Error Indication procedure.

- If a received response message is missing one or more IEs/IE groups with specified criticality "Reject IE", the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

Ignore IE and Notify Sender:

- If a received message initiating a procedure is missing one or more IEs/IE groups with specified criticality "Ignore IE and Notify Sender", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and report in the response message of the procedure that one or more IEs/IE groups were missing. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the response message, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.

- If a received message initiating a procedure that does not have a message to report the outcome of the procedure is missing one or more IEs/IE groups with specified criticality "Ignore IE and Notify Sender", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.

- If a received response message is missing one or more IEs/IE groups with specified criticality "Ignore IE and Notify Sender", the receiving node shall ignore that those IEs/IE groups are missing and continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.

Ignore IE:

2. If a received message initiating a procedure is missing one or more IEs/IE groups with specified criticality "Ignore IE", the receiving node shall ignore that those IEs are missing and continue with the procedure based on the other IEs/IE groups present in the message.

3. If a received response message is missing one or more IEs/IE groups with specified criticality "Ignore IE", the receiving node shall ignore that those IEs/IE groups are missing and continue with the procedure based on the other IEs/IE groups present in the message.

When reporting missing IEs/IE groups with specified criticality "Reject IE" or "Ignore IE and Notify Sender" using a response message defined for the procedure, the Information Element Criticality Diagnostics IE shall be included in the Criticality Diagnostics IE for each reported IE/IE group. In the Information Element Criticality Diagnostics IE the Repetition Number IE shall be included and in addition, if the missing IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the Message Structure IE shall be included.

When reporting missing IEs/IE groups with specified criticality "Reject IE" or "Ignore IE and Notify Sender" using the Error Indication procedure, the Procedure ID IE, the Triggering Message IE, Procedure Criticality IE, the Transaction ID IE, and the Information Element Criticality Diagnostics IE shall be included in the Criticality Diagnostics IE for each reported IE/IE group. In the Information Element Criticality Diagnostics IE the Repetition Number IE shall be
included and in addition, if the missing IE/IE group is not at message hierarchy level 1 (top level; see annex C) also the Message Structure IE shall be included.

10.3.6 IEs or IE Groups Received in Wrong Order or With Too Many Occurrences or Erroneously Present

If a message with IEs or IE groups in wrong order or with too many occurrences is received or if IEs or IE groups with a conditional presence are present when the condition is not met (i.e. erroneously present), the receiving node shall behave according to the following:

- If a message initiating a procedure is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the cause value "Abstract Syntax Error (Falsely Constructed Message)" using the message normally used to report unsuccessful outcome of the procedure. In case the information received in the initiating message was insufficient to determine a value for all IEs that are required to be present in the message used to report the unsuccessful outcome of the procedure, the receiving node shall instead terminate the procedure and initiate the Error Indication procedure.

4. If a message initiating a procedure that does not have a message to report unsuccessful outcome is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, the receiving node shall terminate the procedure and initiate the Error Indication procedure, and use cause value "Abstract Syntax Error (Falsely Constructed Message)".

- If a response message is received containing IEs or IE groups in wrong order or with too many occurrences or erroneously present, the receiving node shall consider the procedure as unsuccessfully terminated and initiate local error handling.

When determining the correct order only the IEs specified in the specification version used by the receiver shall be considered.

10.4 Logical Error

Logical error situations occur when a message is comprehended correctly, but the information contained within the message is not valid (i.e. semantic error), or describes a procedure which is not compatible with the state of the receiver. In these conditions, the following behaviour shall be performed (unless otherwise specified) as defined by the class of the elementary procedure, irrespective of the criticality of the IEs/IE groups containing the erroneous values.

**Class 1:**

Where the logical error occurs in a request message of a class 1 procedure, and the procedure has a message to report this unsuccessful outcome, this message shall be sent with an appropriate cause value.

Typical cause values are:

- Protocol Causes:
  1. Semantic Error
  2. Message not compatible with receiver state

Where the logical error is contained in a request message of a class 1 procedure, and the procedure does not have a message to report this unsuccessful outcome, the procedure shall be terminated and the ERROR INDICATION procedure shall be initiated with an appropriate cause value. The Procedure ID IE, the Triggering Message IE and the Transaction ID IE within the Criticality Diagnostics IE shall then be included in order to identify the message containing the logical error.

Where the logical error exists in a response message of a class 1 procedure, the procedure shall be considered as unsuccessfully terminated and local error handling shall be initiated.

**Class 2:**

Where the logical error occurs in a message of a class 2 procedure, the procedure shall be terminated and the ERROR INDICATION procedure shall be initiated with an appropriate cause value. The Procedure ID IE, the Triggering
Message IE and the Transaction ID IE within the Criticality Diagnostics IE shall then be included in order to identify the message containing the logical error.

10.5 Exceptions

The error handling for all the cases described hereafter shall take precedence over any other error handling described in the other subclause of clause 10.

- If any type of error (Transfer Syntax Error, Abstract Syntax Error or Logical Error) is detected in the ERROR INDICATION message, it shall not trigger the Error Indication procedure in the receiving Node but local error handling.

- In case a response message or ERROR INDICATION message needs to be returned, but the information necessary to determine the receiver of that message is missing, the procedure shall be considered as unsuccessfully terminated and local error handling shall be initiated.

- If an error that terminates a procedure occurs, the returned cause value shall reflect the error that caused the termination of the procedure even if one or more abstract syntax errors with criticality 'ignore and notify' have earlier occurred within the same procedure.
Annex A (normative):
Allocation and Pre-emption of Radio Links in the Node B

A.1 Deriving Allocation Information for a Radio Link

A.1.1 Establishment of a New Radio Link

The Allocation Information for a Radio Link in the case of establishment of a new Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.

NOTE: The Allocation/Retention Priority IE for a transport channel may have been received in
a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B or
b) a procedure adding or modifying the transport channel.

- If the Priority Level IE in the Allocation/Retention Priority IE for all transport channels that are intended to use the Radio Link is set to "no priority", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".

- If the Priority Level IE in the Allocation/Retention Priority IE for one or more of the transport channels that are intended to use the Radio Link is not set to "no priority", the allocation priority and the pre-emption capability of the Radio Link shall be set according to the following:

  - The transport channels that have the Priority Level IE in the Allocation/Retention Priority IE set to "no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link.

  - The allocation priority for a Radio Link shall be set to highest priority level, given by the Priority Level IE in the Allocation/Retention Priority IE, for all non-excluded transport channels that are intended to use the Radio Link.

  - If all non-excluded transport channels that are intended to use a Radio Link to be established have the pre-emption capability, given by the Pre-emption Capability IE in the Allocation/Retention Priority IE, set to "shall not trigger pre-emption", the pre-emption capability of the Radio Link shall be set to "shall not trigger pre-emption".

    If one or more non-excluded transport channels that are intended to use the Radio Link to be established have the value of the Pre-emption Capability IE in the Allocation/Retention Priority IE set to "may trigger pre-emption", the pre-emption capability of the Radio Link shall be set to "may trigger pre-emption".

The derived allocation priority and pre-emption capability are only valid during this allocation/retention process.

A.1.2 Modification of an Existing Radio Link

The Allocation Information for a Radio Link in the case of modification of a Radio Link (addition or modification of transport channels using the Radio Link) shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.

NOTE: The Allocation/Retention Priority IE for a transport channel may have been received in
a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B,
b) a previous procedure adding or modifying the transport channel, or
c) the current procedure adding or modifying the transport channel.
If the Priority Level IE in the Allocation/Retention Priority IE for all transport channels to be added or modified in the Radio Link is set to "no priority", the pre-emption capability of the Radio Link to be modified shall be set to "shall not trigger pre-emption".

If the Priority Level IE in the Allocation/Retention Priority IE for one or more of the transport channels to be added or modified in the Radio Link is not set to "no priority", the allocation priority of and the pre-emption capability of the Radio Link to be modified shall be set according to the following:

- The transport channels to be added or modified that have the Priority Level IE in the Allocation/Retention Priority IE set to "no priority" shall be excluded when setting the allocation priority and pre-emption capability of a Radio Link to be modified.

- The allocation priority for a Radio Link to be modified shall be set to highest priority level, given by the Priority Level IE in the Allocation/Retention Priority IE, for all the non-excluded transport channels that are to be added or modified.

- If all non-excluded transport channels that are to be added or modified in the Radio Link have the pre-emption capability, given by the Pre-emption Capability IE in the Allocation/Retention Priority IE, set to "shall not trigger pre-emption", the pre-emption capability of the Radio Link to be modified shall be set to "shall not trigger pre-emption".

If one or more of the non-excluded transport channels to be added or modified in the Radio Link have the value of the Pre-emption Capability IE in the Allocation/Retention Priority IE set to "may trigger pre-emption", the pre-emption capability of the Radio Link to be modified shall be set to "may trigger pre-emption".

The derived allocation priority and pre-emption capability are only valid during this allocation/retention process.

### A.2 Deriving Retention Information for a Radio Link

The Retention Information for an existing Radio Link shall be derived as follows:

- The latest received Allocation/Retention Priority IE for each transport channel shall be used.

NOTE: The Allocation/Retention Priority IE for a transport channel may have been received in

a) the procedure that establishes the first Radio Link for the Node B Communication Context in the Node B or
b) a procedure adding or modifying the transport channel.

- If the Priority Level IE in the Allocation/Retention Priority IE for one or more transport channels using the Radio Link is set to "no priority", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".

- If the Priority Level IE in the Allocation/Retention Priority IE for all the transport channels using the Radio Link is not set to "no priority", the retention priority of the Radio Link and the pre-emption vulnerability of the Radio Link shall be set according to the following:

- The retention priority for a Radio Link shall be set to highest priority level, given by the Priority Level IE in the Allocation/Retention Priority IE, for all transport channels that uses the Radio Link.

- If all transport channels that uses the Radio Link have the pre-emption vulnerability, given by the Pre-emption Vulnerability IE in the Allocation/Retention Priority IE, set to "pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "pre-emptable".

If one or more transport channels that uses the Radio Link have the value of the Pre-emption Vulnerability IE in the Allocation/Retention Priority IE set to "not pre-emptable", the pre-emption vulnerability of the Radio Link shall be set to "not pre-emptable".

The derived retention priority and pre-emption vulnerability are valid until they are changed, or until the Radio Link is deleted. When new transport channels are added to or deleted from the Radio Link or when existing transport channels are modified with regards to the Allocation/Retention Priority IE, the retention information shall be derived again according to above.
**A.3 The Allocation/Retention Process**

The Node B shall establish or modify the resources for a Radio Link according to:

- The value of the Allocation Information (allocation priority and pre-emption capability) of the Radio Link to be established or modified. The Allocation Information is derived according to clause A.1.

- The value of the Retention Information (retention priority and pre-emption vulnerability) of existing Radio Links. The Retention Information derived according to clause A.2.

- The resource situation in the cell.

Whilst the process and the extent of the pre-emption functionality is operator dependent, the pre-emption indicators (pre-emption capability and pre-emption vulnerability) shall be treated as follows:

- If the pre-emption capability for a Radio Link to be established or modified is set to "may trigger pre-emption" and the resource situation so requires, the Node B may trigger the pre-emption process in clause A.4 to free resources for this allocation request.

- If the pre-emption capability for a Radio Link to be established or modified is set to "shall not trigger pre-emption", then this allocation request shall not trigger the pre-emption process in clause A.4.

- If the pre-emption vulnerability for an existing Radio Link is set to "pre-emptable", then this Radio Link shall be included in the pre-emption process in clause A.4.

- If the pre-emption vulnerability for an existing Radio Link is set to "not pre-emptable", then this Radio Link shall not be included in the pre-emption process in clause A.4.

**A.4 The Pre-emption Process**

The pre-emption process shall only pre-empt Radio Links with lower retention priority than the allocation priority of the Radio Link to be established or modified. The Radio Links to be pre-empted shall be selected in ascending order of the retention priority.

When the pre-emption process detects that one or more Radio Links have to be pre-empted to free resources for a Radio Link(s) to be established or modified, the Node B shall initiate the Radio Link Pre-emption procedure for all the Node B Communication Contexts having Radio Links selected for pre-emption and start the T\text{Preempt} timer.

When enough resources are freed to establish or modify the Radio Link(s) according to the request, the Node B shall stop the T\text{Preempt} timer and complete the procedure that triggered the pre-emption process in accordance with the "Successful Operation" subclause of the procedure.

If the T\text{Preempt} timer expires, the Node B shall regard the procedure that triggered the pre-emption process as failed and complete the procedure in accordance with the "Unsuccessful Operation" subclause of the procedure.
Annex B (informative): Measurement Reporting

When the Report Characteristics IE is set to “Event A” (figure B.1), the Measurement Reporting procedure is initiated when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the value zero shall be used for the hysteresis time.

Figure B.1: Event A reporting with Hysteresis Time specified

When the Report Characteristics IE is set to “Event B” (figure B.2), the Measurement Reporting procedure is initiated when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the value zero shall be used for the hysteresis time.
When the Report Characteristics IE is set to "Event C" (figure B.3), the Measurement Reporting procedure is initiated always when the measured entity rises by an amount greater than the requested threshold within the requested time. The reporting in figure B.3 is initiated if the Rising Time T1 is less than the requested time.

When the Report Characteristics IE is set to "Event D" (figure B.4), the Measurement Reporting procedure is initiated always when the measured entity falls by an amount greater than the requested threshold within the requested time. The reporting in figure B.4 is initiated if the Falling Time T1 is less than the requested time.
When the Report Characteristics IE is set to "Event E" (figure B.5), the Measurement Reporting procedure (Report A) is initiated always when the measured entity rises above the "Measurement Threshold 1" and stays there for the "Measurement Hysteresis Time" (T1 in figure B.5). If Report Periodicity IE is provided Node B shall also initiate Measurement Reporting procedure periodically. The periodic reporting continues although the measured entity falls below the "Measurement Threshold 1" and is terminated by the Report B.

When the Report A conditions have been met and the measured entity falls below the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.

Figure B.5: Event E reporting with Hysteresis Time specified and Periodic Reporting requested
When the Report Characteristics IE is set to "Event F" (figure B.6), the Measurement Reporting procedure (Report A) is initiated always when the measured entity falls below the "Measurement Threshold 1" and stays there for the "Measurement Hysteresis Time" (T1 in figure B.6). If Report Periodicity IE is provided Node B shall also initiate Measurement Reporting procedure periodically. The periodic reporting continues although the measured entity rises above the "Measurement Threshold 1" and is terminated by the Report B.

When the Report A conditions have been met and the measured entity rises above the "Measurement Threshold 2" and stays there for the "Measurement Hysteresis Time" (T1) Measurement Reporting procedure (Report B) is initiated and the periodic reporting is terminated.

Figure B.6: Event F reporting with Hysteresis Time specified and Periodic Reporting requested
Annex C (informative):
Guidelines for Usage of the Criticality Diagnostics IE

C.1 EXAMPLE MESSAGE Layout

Assume the following message format:

<table>
<thead>
<tr>
<th>IE/Group Name</th>
<th>Presence</th>
<th>Range</th>
<th>IE Type and Referenc e</th>
<th>Semantics Description</th>
<th>Criticality</th>
<th>Assigned Criticality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message Type</td>
<td>M</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction ID</td>
<td>M</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>M</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>M</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;E</td>
<td></td>
<td>1..&lt;maxE&gt;</td>
<td>EACH ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;F</td>
<td></td>
<td>1..&lt;maxF&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;G</td>
<td></td>
<td>0..3, …</td>
<td>EACH ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;H</td>
<td></td>
<td>1..&lt;maxH&gt;</td>
<td>EACH ignore</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;G</td>
<td></td>
<td>0..3, …</td>
<td>EACH ignore and notify</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;G</td>
<td>M</td>
<td>1..&lt;maxJ&gt;</td>
<td>YES reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;J</td>
<td></td>
<td>0..3, …</td>
<td>EACH reject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>M</td>
<td></td>
<td></td>
<td>YES reject</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;K</td>
<td></td>
<td>1..&lt;maxK&gt;</td>
<td>EACH ignore and notify</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;L</td>
<td></td>
<td>1..&lt;maxL&gt;</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;&gt;M</td>
<td>O</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>M</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE 1: The IEs F, J, and L do not have assigned criticality. The IEs F, J, and L are consequently realised as the ASN.1 type SEQUENCE OF of “ordinary” ASN.1 type, e.g. INTEGER. On the other hand, the repeatable IEs with assigned criticality are realised as the ASN.1 type SEQUENCE OF of an IE object, e.g. ProtocolIE-Single-Container.

For the corresponding ASN.1 layout, see subclause C.4.
C.2 Example on a Received EXAMPLE MESSAGE

Assume further more that a received message based on the above tabular format is according to the figure below.

![Diagram](image_url)

Legend:
- IE based on a protocol container, e.g., Protocol-Single-Container
- IE being an "ordinary" ASN.1 type

Figure C.1: Example of content of a received NBAP message based on the EXAMPLE MESSAGE
C.3 Content of Criticality Diagnostics

C.3.1 Example 1

If there is an error within the instance marked as grey in the IE G in the IE J shown in the figure C.2 above, this will be reported within the Information Element Criticality Diagnostics IE within the Criticality Diagnostics IE as follows:

<table>
<thead>
<tr>
<th>IE name</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE Criticality</td>
<td>reject</td>
<td>Criticality for IE on the reported level, i.e. level 4.</td>
</tr>
<tr>
<td>IE ID</td>
<td>id-G</td>
<td>IE ID from the reported level, i.e. level 4.</td>
</tr>
<tr>
<td>Repetition Number</td>
<td>11</td>
<td>Repetition number on the reported level, i.e. level 4.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Since the IE E (level 2) is the lowest level included in the Message Structure IE this is the eleventh occurrence of IE G within the IE E (level 2).)</td>
</tr>
<tr>
<td>Type of Error</td>
<td>not understood</td>
<td></td>
</tr>
<tr>
<td>Message Structure, first repetition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE ID</td>
<td>id-B</td>
<td>IE ID from level 1.</td>
</tr>
<tr>
<td>Message Structure, second repetition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE ID</td>
<td>id-E</td>
<td>IE ID from the lowest level above the reported level, i.e. level 2.</td>
</tr>
<tr>
<td>&gt;Repetition Number</td>
<td>3</td>
<td>Repetition number from the lowest level above the reported level, i.e. level 2.</td>
</tr>
</tbody>
</table>

NOTE 2: The IE J on level 3 cannot be included in the Message Structure IE since they have no criticality of their own.

NOTE 3: The repetition number of the reported IE indicates the number of repetitions of IE G received up to the detected erroneous repetition, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).
C.3.2 Example 2

If there is an error within the second instance (marked as grey) in the sequence (IE L in the tabular format) on level 3 below IE K in the structure shown in the figure C.3 above, this will be reported within the Information Element Criticality Diagnostics IE within the Criticality Diagnostics IE as follows:

<table>
<thead>
<tr>
<th>IE name</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE Criticality</td>
<td>Ignore and notify</td>
<td>Criticality for IE on the reported level, i.e. level 2.</td>
</tr>
<tr>
<td>IE ID</td>
<td>id-K</td>
<td>IE ID from the reported level, i.e. level 2.</td>
</tr>
<tr>
<td>Repetition Number</td>
<td>3</td>
<td>Repetition number on the reported level, i.e. level 2.</td>
</tr>
<tr>
<td>Type of Error</td>
<td>not understood</td>
<td></td>
</tr>
<tr>
<td>Message Structure, first repetition</td>
<td>&gt;IE ID id-C</td>
<td>IE ID from the lowest level above the reported level, i.e. level 1.</td>
</tr>
</tbody>
</table>

NOTE 4: The IE L on level 3 cannot be reported individually included in the Message Structure IE since it has no criticality of its own.
C.3.3 Example 3

Figure C.4: Example of a received NBAP message containing a not comprehended IE

If there is an error within the instance marked as grey in the IE G in the IE H shown in the figure C.4 above, this will be reported within the Information Element Criticality Diagnostics IE within the Criticality Diagnostics IE as follows:

<table>
<thead>
<tr>
<th>IE name</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE Criticality</td>
<td>Ignore and notify</td>
<td>Criticality for IE on the reported level, i.e. level 4.</td>
</tr>
<tr>
<td>IE ID</td>
<td>id-G</td>
<td>IE ID from the reported level, i.e. level 4.</td>
</tr>
<tr>
<td>Repetition Number</td>
<td>2</td>
<td>Repetition number on the reported level, i.e. level 4.</td>
</tr>
<tr>
<td>Type of Error</td>
<td>not understood</td>
<td></td>
</tr>
<tr>
<td>Message Structure, first repetition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE ID</td>
<td>id-B</td>
<td>IE ID from level 1.</td>
</tr>
<tr>
<td>Message Structure, second repetition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE ID</td>
<td>id-E</td>
<td>IE ID from level 2.</td>
</tr>
<tr>
<td>&gt;Repetition Number</td>
<td>3</td>
<td>Repetition number from level 2.</td>
</tr>
<tr>
<td>Message Structure, third repetition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE ID</td>
<td>id-H</td>
<td>IE ID from the lowest level above the reported level, i.e. level 3.</td>
</tr>
<tr>
<td>&gt;Repetition Number</td>
<td>1</td>
<td>Repetition number from the lowest level above the reported level, i.e. level 3.</td>
</tr>
</tbody>
</table>
C.3.4 Example 4

If there is an error within the instance marked as grey in the IE G in the IE E shown in the figure C.5 above, this will be reported within the Information Element Criticality Diagnostics IE within the Criticality Diagnostics IE as follows:

<table>
<thead>
<tr>
<th>IE name</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE Criticality reject</td>
<td></td>
<td>Criticality for IE on the reported level, i.e. level 3.</td>
</tr>
<tr>
<td>IE ID id-G</td>
<td></td>
<td>IE ID from the reported level, i.e. level 3.</td>
</tr>
<tr>
<td>Repetition Number 5</td>
<td></td>
<td>Repetition number on the reported level, i.e. level 3.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Since the IE E (level 2) is the lowest level included in the Message Structure IE this is the fifth occurrence of IE G within the IE E (level 2).)</td>
</tr>
<tr>
<td>Type of Error not understod</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message Structure, first repetition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE ID id-B</td>
<td></td>
<td>IE ID from level 1.</td>
</tr>
<tr>
<td>Message Structure, second repetition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE ID id-E</td>
<td></td>
<td>IE ID from the lowest level above the reported level, i.e. level 2.</td>
</tr>
<tr>
<td>&gt;Repetition Number 3</td>
<td></td>
<td>Repetition number from the lowest level above the reported level, i.e. level 2.</td>
</tr>
</tbody>
</table>

**NOTE 6:** The repetition number of the reported IE indicates the number of repetitions of IE G received up to the detected erroneous repetition, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).
C.3.5 Example 5

Figure C.6: Example of a received NBAP message with a missing IE

If the instance marked as grey in the IE G in the IE E shown in the figure C.6 above, is missing this will be reported within the Information Element Criticality Diagnostics IE as follows:

<table>
<thead>
<tr>
<th>IE name</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE Criticality</td>
<td>reject</td>
<td>Criticality for IE on the reported level, i.e. level 3.</td>
</tr>
<tr>
<td>IE ID</td>
<td>id-G</td>
<td>IE ID from the reported level, i.e. level 3.</td>
</tr>
<tr>
<td>Repetition Number</td>
<td>4</td>
<td>Repetition number up to the missing IE on the reported level, i.e. level 3. (Since the IE E (level 2) is the lowest level included in the Message Structure IE there have been four occurrences of IE G within the IE E (level 2) up to the missing occurrence.</td>
</tr>
<tr>
<td>Type of Error</td>
<td>missing</td>
<td></td>
</tr>
<tr>
<td>Message Structure, first repetition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE ID</td>
<td>id-B</td>
<td>IE ID from level 1.</td>
</tr>
<tr>
<td>Message Structure, second repetition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;IE ID</td>
<td>id-E</td>
<td>IE ID from the lowest level above the reported level, i.e. level 2.</td>
</tr>
<tr>
<td>&gt;Repetition Number</td>
<td>3</td>
<td>Repetition number from the lowest level above the reported level, i.e. level 2.</td>
</tr>
</tbody>
</table>

NOTE 7: The repetition number of the reported IE indicates the number of repetitions of IE G received up to but not including the missing occurrence, counting all occurrences of the IE G below the same instance of the previous level with assigned criticality (instance 3 of IE E on level 2).
C.4 ASN.1 of EXAMPLE MESSAGE

ExampleMessage ::= SEQUENCE {
  ProtocolIEs   ProtocolIE-Container {{ExampleMessage-IEs}},
  ProtocolExtensions ProtocolExtensionContainer {{ExampleMessage-Extensions}} OPTIONAL,
  ...
}

ExampleMessage-IEs NBAP-PROTOCOL-IEs ::= {
  { ID id-A CRITICALITY reject TYPE A PRESENCE mandatory },
  { ID id-B CRITICALITY reject TYPE B PRESENCE mandatory },
  { ID id-C CRITICALITY reject TYPE C PRESENCE mandatory },
  { ID id-D CRITICALITY reject TYPE D PRESENCE mandatory },
  ...
}

B ::= SEQUENCE {
  e    E-List,
  iE-Extensions ProtocolExtensionContainer { {B-ExtIEs} } OPTIONAL,
  ...
}

B-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

E-List ::= SEQUENCE (SIZE (1..maxE)) OF ProtocolIE-Single-Container { {E-IEs} }

E-IEs NBAP-PROTOCOL-IE ::= {
  { ID id-E CRITICALITY ignore TYPE E PRESENCE mandatory }
}

E ::= SEQUENCE {
  f    F-List,
  h    H-List,
  g    G-List1,
  j    J-List,
  iE-Extensions ProtocolExtensionContainer { {E-ExtIEs} } OPTIONAL,
  ...
}

E-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

F-List ::= SEQUENCE (SIZE (1..maxF)) OF F

F ::= SEQUENCE {
  g    G-List2 OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {F-ExtIEs} } OPTIONAL,
  ...
}

F-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

G-List2 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G2-IEs} }

G2-IEs NBAP-PROTOCOL-IE ::= {
  { ID id-G CRITICALITY ignore TYPE G PRESENCE mandatory }
}

H-List ::= SEQUENCE (SIZE (1..maxH)) OF ProtocolIE-Single-Container { {H-IEs} }

H-IEs NBAP-PROTOCOL-IE ::= {
  { ID id-H CRITICALITY ignore TYPE H PRESENCE mandatory }
}

H ::= SEQUENCE {
  g    G-List3 OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {H-ExtIEs} } OPTIONAL,
  ...
}

H-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...}
ETSI TS 125 433 V9.5.0 (2011-03)

G-List3 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G3-IEs} }

G3-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-G CRITICALITY notify TYPE G PRESENCE mandatory }
}

G-List1 ::= ProtocolIE-Single-Container { {G1-IEs} }

G1-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-G CRITICALITY reject TYPE G PRESENCE mandatory }
}

J-List ::= SEQUENCE (SIZE (1..maxJ)) OF J

J ::= SEQUENCE {
  g G-List4 OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {J-ExtIEs} } OPTIONAL,
  ...
}

J-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

G-List4 ::= SEQUENCE (SIZE (1..3, ...)) OF ProtocolIE-Single-Container { {G4-IEs} }

G4-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-G CRITICALITY reject TYPE G PRESENCE mandatory }
}

C ::= SEQUENCE {
  k K-List,
  iE-Extensions ProtocolExtensionContainer { {C-ExtIEs} } OPTIONAL,
  ...
}

C-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

K-List ::= SEQUENCE (SIZE (1..maxK)) OF ProtocolIE-Single-Container { {K-IEs} }

K-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-K CRITICALITY notify TYPE K PRESENCE mandatory }
}

K ::= SEQUENCE {
  l L-List,
  iE-Extensions ProtocolExtensionContainer { {K-ExtIEs} } OPTIONAL,
  ...
}

K-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

L-List ::= SEQUENCE (SIZE (1..maxL)) OF L

L ::= SEQUENCE {
  m M OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {L-ExtIEs} } OPTIONAL,
  ...
}

L-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

ExampleMessage-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
Annex D (normative):
IB_SG_DATA Encoding

D.1 Overall Description

There exist two variants for encoding IB_SG_DATA IE (see section 9.2.1.32), which are detailed in subsections below. To avoid incorrect transmission of System Information on Uu, the following behaviour is required:

- For each Iub, CRNC shall use the encoding variant supported by the Node B for the IB_SG_DATA IE (see section 9.2.1.32) when sending the SYSTEM INFORMATION UPDATE REQUEST message to the Node B. This is supported by configuration in the CRNC.

D.2 IB_SG_DATA Encoding Variant 1

This variant corresponds to the algorithm, that ASN.1 length encoding for the conveyed SIB segment is performed by the RNC. Building of IB_SG_DATA segments involves two steps:

1) Segmentation of MIB/SIB/SB and

2) RRC encoding of the segments, which includes the PER encoding of the length in case of "SIB data variable".

Figure D.1: The Building of Segments

D.3 IB_SG_DATA Encoding Variant 2

This variant corresponds to the algorithm, that ASN.1 length encoding for the conveyed segment is not performed by the RNC. Segments are built in the CRNC by segmentation of a MIB/SIB/SB.
The data from the Segmentation is included directly into an instance of NBAP NB_SG_DATA IE

Figure D.2: The Building of Segments
Annex E (informative):
Reporting the status of resources used for frequency (1.28 Mcps TDD only)

For a multi-frequency cell, the Local Cell represents the resources in the Node B that can be used for the configuration of a number of frequencies in the cell. The resources for a frequency in Node B are defined as FPM (Frequency Process Module) and is identified by FPM ID.

In the Cell Setup procedure, RNC should configure FPM for each frequency by including FPM ID IE in the CELL SETUP REQUEST message.

In the Cell Reconfiguration procedure, RNC should configure FPM for each added frequency by including FPM ID IE in the CELL RECONFIGURATION REQUEST message.

In Audit procedure, the Node B should include the FPM ID IE and the Local Cell ID IE in the Local Cell Information IE to report the status of a FPM in the AUDIT RESPONSE message.

In Resource Status Indication procedure, the Node B should include the FPM ID IE and the Local Cell ID IE in the Local Cell Information IE to report the status of a FPM in the RESOURCE STATUS INDICATION message.
### Annex F (informative): Change History

<table>
<thead>
<tr>
<th>TSG Doc.</th>
<th>CR</th>
<th>Rev</th>
<th>Subject/Comment</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Creation of Rel-9 version based on 8.6.0</td>
<td>9.0.0</td>
</tr>
<tr>
<td>RP-090777</td>
<td>1648</td>
<td>2</td>
<td>Introduction of UE AMBR concept in UMTS</td>
<td>9.0.0</td>
</tr>
<tr>
<td>RP-090774</td>
<td>1658</td>
<td>2</td>
<td>Introduction of TxAA extension for non-MIMO UEs</td>
<td>9.0.0</td>
</tr>
<tr>
<td>RP-090772</td>
<td>1659</td>
<td>2</td>
<td>Introduction of Dual Band-HSDPA</td>
<td>9.0.0</td>
</tr>
<tr>
<td>RP-090773</td>
<td>1667</td>
<td>1</td>
<td>Introduction of MIMO for DC HSDPA</td>
<td>9.0.0</td>
</tr>
<tr>
<td>RP-091188</td>
<td>1671</td>
<td>1</td>
<td>Introduction of Cell Portion for 1.28 Mcps TDD</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091187</td>
<td>1672</td>
<td>1</td>
<td>Single Stream MIMO for DC-HSDPA</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091186</td>
<td>1673</td>
<td>1</td>
<td>Activation and deactivation of secondary carrier in non serving Node B</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091178</td>
<td>1676</td>
<td>1</td>
<td>Correction to ASN.1 for MIMO Power offset</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091181</td>
<td>1678</td>
<td>1</td>
<td>Clarification of DPC mode configuration for common E-DCH</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091182</td>
<td>1680</td>
<td>1</td>
<td>Correction of abnormal conditions for Dual cell HS-DCH in RL Addition procedure</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091180</td>
<td>1688</td>
<td>2</td>
<td>Correction on ASN.1 errors in IE Common E-DCH System Information Response LCR for 1.28Mcps TDD</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091180</td>
<td>1690</td>
<td>2</td>
<td>Correction on the SPS resource configuration for 1.28Mcps TDD</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091180</td>
<td>1696</td>
<td>1</td>
<td>Addition of ans.1 definition for the E-DCH Semi-Persistent Resource Reservation Indicator IE</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091180</td>
<td>1698</td>
<td>1</td>
<td>Correction of several IEs* names for 1.28 Mcps TDD</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091180</td>
<td>1700</td>
<td>1</td>
<td>Correction of an error in the HS-DSCH Common System Information LCR IE</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091180</td>
<td>1702</td>
<td>1</td>
<td>Correction of HARQ Memory Partitioning configuration in Enhanced Cell_FACH Operation for 1.28 Mcps TDD</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091180</td>
<td>1704</td>
<td>1</td>
<td>Clarification of Priority Queue ID for Enhanced CELL_FACH for 1.28Mcps TDD</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091188</td>
<td>1707</td>
<td>2</td>
<td>The Power configuration method per Cell Portion for 1.28 Mcps TDD</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091181</td>
<td>1714</td>
<td>1</td>
<td>Application of MAC-e Reset Indicator for MAC-i Reset</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091182</td>
<td>1716</td>
<td>1</td>
<td>Further Corrections for DC-HSDPA</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091181</td>
<td>1718</td>
<td>1</td>
<td>Introduction of E-RNTI in RL Information in RL Setup Request</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091186</td>
<td>1719</td>
<td>4</td>
<td>Introduction of Dual-Cell HSUPA</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091189</td>
<td>1723</td>
<td>2</td>
<td>STTD is cell specific in Dual-Cell HSUPA</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091187</td>
<td>1729</td>
<td>1</td>
<td>Removal of MAC-ehs format indicator</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091179</td>
<td>1731</td>
<td>1</td>
<td>Correction on IE ‘E-AGCH Table Choice’</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091186</td>
<td>1732</td>
<td>1</td>
<td>Introduction of Re9 HSPA Capability into NBAP</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-091195</td>
<td>1733</td>
<td>1</td>
<td>Introduction of dormant mode</td>
<td>9.1.0</td>
</tr>
<tr>
<td>RP-100219</td>
<td>1734</td>
<td>2</td>
<td>E-RNTI Allocation for UE moves to Cell_FACH from Cell_DCH</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100215</td>
<td>1736</td>
<td>1</td>
<td>Allow reconfiguration of some IEs in RL Addition procedure</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100217</td>
<td>1743</td>
<td>2</td>
<td>Addition of power control and synchronization control configurations for enhanced CELL_FACH for 1.28Mcps TDD</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100217</td>
<td>1745</td>
<td>2</td>
<td>Correction of description for RSI procedure for 1.28Mcps TDD</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100218</td>
<td>1747</td>
<td>1</td>
<td>Correction for the description of E-DCH serving radio link IE for E-DCH semi-persistent operation</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100219</td>
<td>1749</td>
<td>1</td>
<td>Correction of the presence of Sixtyfour QAM DL and MIMO Combined Capability IE</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100218</td>
<td>1751</td>
<td>1</td>
<td>A missing IE in ASN.1 for 1.28 Mcps TDD</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100218</td>
<td>1754</td>
<td>1</td>
<td>Correction on RTWP configuration in multiple frequencies cell 1.28Mcps TDD</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100217</td>
<td>1756</td>
<td>2</td>
<td>Correction on the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE for 1.28Mcps TDD</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100230</td>
<td>1757</td>
<td>2</td>
<td>Introduction of HS-PDSCH resources on TS0 for 1.28Mcps TDD</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100218</td>
<td>1763</td>
<td>1</td>
<td>Corrections to the number of Non-HS-SCCH Associated HS-SICH for 1.28Mcps TDD</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100230</td>
<td>1764</td>
<td>2</td>
<td>Corrections from NBAP ASN.1 review</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100218</td>
<td>1766</td>
<td>2</td>
<td>Clarification of HS-SCCH TPC step size configuration</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100230</td>
<td>1767</td>
<td>2</td>
<td>Addition of DGNSS Validity Period in NBAP</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100229</td>
<td>1770</td>
<td>1</td>
<td>Introduction of UE Aggregate Maximum Bit Rate Enforcement Indicator</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100218</td>
<td>1772</td>
<td>1</td>
<td>Synchronization detection window configuration in CPC for 1.28 Mcps TDD</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100217</td>
<td>1774</td>
<td>1</td>
<td>Addition of Physical Channel ID in the common E-RNTI configuration for 1.28 Mcps TDD</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100230</td>
<td>1777</td>
<td>2</td>
<td>Measurement occasion configuration in CELL_DCH for 1.28Mcps TDD</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100219</td>
<td>1780</td>
<td>1</td>
<td>Addition of F-DPCH TX Power info in Common E-DCH System Information</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100224</td>
<td>1783</td>
<td>2</td>
<td>Small Correction/Improvements for DC-HSUPA</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100218</td>
<td>1785</td>
<td>1</td>
<td>Removal of procedural text for DPC Mode IE in Common E-DCH System Information</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100216</td>
<td>1787</td>
<td>1</td>
<td>Correction for Procedural Text on E-RNTI Allocation at E-DCH Serving Cell Change</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100199</td>
<td>1790</td>
<td>1</td>
<td>Indication of Preceding Weight Set Restriction preference</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100221</td>
<td>1791</td>
<td>1</td>
<td>Remove Cell Specific HARQ memory partitioning for DC HSDPA+MIMO</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100216</td>
<td>1792</td>
<td>1</td>
<td>Correction of E-DCH RACH Report</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100216</td>
<td>1794</td>
<td>1</td>
<td>Correction of common E-DCH mac-d flow for CCCH transmission</td>
<td>9.2.0</td>
</tr>
<tr>
<td>RP-100593</td>
<td>1761</td>
<td>3</td>
<td>Correction to state transition of Enhanced CELL_FACH UE for LCR TDD</td>
<td>9.3.0</td>
</tr>
<tr>
<td>RP-100593</td>
<td>1804</td>
<td>1</td>
<td>Clarification on the usage of Treset for 1.28 Mcps TDD</td>
<td>9.3.0</td>
</tr>
<tr>
<td>RP-100592</td>
<td>1808</td>
<td>1</td>
<td>CPC parameters missing for serving HS-DSCH RL change in RL Addition procedure</td>
<td>9.3.0</td>
</tr>
<tr>
<td>RP-100593</td>
<td>1810</td>
<td>2</td>
<td>Correction of procedure text that appears to be duplicated and mis-placed</td>
<td>9.3.0</td>
</tr>
<tr>
<td>RP-100594</td>
<td>1811</td>
<td>2</td>
<td>CQI Feedback Cycle k for DC-HS-DPA and MIMO operation</td>
<td>9.3.0</td>
</tr>
<tr>
<td>RP-100595</td>
<td>1815</td>
<td>1</td>
<td>Correction for IE Definition for HS-DSCH/E-DCH MAC PDU Size Capability</td>
<td>9.3.0</td>
</tr>
<tr>
<td>RP-100596</td>
<td>1816</td>
<td>1</td>
<td>Specify the HS-SCCH used for the BCCH specific H-RNTI at NBAP</td>
<td>9.3.0</td>
</tr>
<tr>
<td>RP-100597</td>
<td>1820</td>
<td>1</td>
<td>Correction for Enhanced Serving Cell Change</td>
<td>9.3.0</td>
</tr>
<tr>
<td>RP-100598</td>
<td>1825</td>
<td>1</td>
<td>Clarification of 64 QAM usage at intra Node B serving HS-DSCH RL change</td>
<td>9.4.0</td>
</tr>
<tr>
<td>RP-100599</td>
<td>1830</td>
<td>1</td>
<td>Best CELL Portions measurement report On Modification for 1.28Mcps TDD</td>
<td>9.4.0</td>
</tr>
<tr>
<td>RP-100600</td>
<td>1833</td>
<td>1</td>
<td>Correction of procedure text for E-DCH SPS operation</td>
<td>9.4.0</td>
</tr>
<tr>
<td>RP-100601</td>
<td>1837</td>
<td>2</td>
<td>Clarifications to the common measurement for 1.28Mcps TDD</td>
<td>9.4.0</td>
</tr>
<tr>
<td>RP-100602</td>
<td>1839</td>
<td>2</td>
<td>Corrections to the mismatch between tabular and ASN.1 for E-FACH 1.28Mcps TDD</td>
<td>9.4.0</td>
</tr>
<tr>
<td>RP-100603</td>
<td>1841</td>
<td>2</td>
<td>Corrections to the range of Enabling Delay for CPC 1.28Mcps TDD</td>
<td>9.4.0</td>
</tr>
<tr>
<td>RP-100604</td>
<td>1842</td>
<td>2</td>
<td>Corrections to HSDPA cell capability container</td>
<td>9.4.0</td>
</tr>
<tr>
<td>RP-101271</td>
<td>1847</td>
<td>1</td>
<td>Adding abnormal conditions to Enhanced Cell/URA_PCH</td>
<td>9.5.0</td>
</tr>
<tr>
<td>RP-101269</td>
<td>1850</td>
<td>1</td>
<td>Corrections to E-DCH MAC-d Flow Multiplexing for 1.28Mcps TDD</td>
<td>9.5.0</td>
</tr>
<tr>
<td>RP-101268</td>
<td>1853</td>
<td>1</td>
<td>Correction of Inactivity Threshold for UE DRX Cycle for 1.28Mcps TDD</td>
<td>9.5.0</td>
</tr>
<tr>
<td>RP-101316</td>
<td>1855</td>
<td>1</td>
<td>Adaptive Special Burst Power for 1.28Mcps TDD</td>
<td>9.5.0</td>
</tr>
</tbody>
</table>
## History

<table>
<thead>
<tr>
<th>Document history</th>
</tr>
</thead>
<tbody>
<tr>
<td>V9.1.1</td>
</tr>
<tr>
<td>V9.2.0</td>
</tr>
<tr>
<td>V9.3.0</td>
</tr>
<tr>
<td>V9.4.0</td>
</tr>
<tr>
<td>V9.5.0</td>
</tr>
</tbody>
</table>