

**TSG-RAN Meeting #9  
Hawaii, US, 20 - 22 September 2000**

**TSGRP#9(00)0387**

**Title: Agreed CRs to TS 25.433**

**Source: TSG-RAN WG3**

**Agenda item: 5.3.3**

Tdoc_Num	Specification	CR_Num	Revision_Num	CR_Subject	CR_Category	WG_Status	Cur_Ver_Num	New_Ver_Num
R3-002218	25.433	190	3	lub Admission Control	F	agreed	3.2.0	3.3.0
R3-001900	25.433	191	1	Corrections of diversity information	F	agreed	3.2.0	3.3.0
R3-001883	25.433	192	1	Editorial Correction NBAP	F	agreed	3.2.0	3.3.0
R3-001847	25.433	193		Minor CPCH correction	F	agreed	3.2.0	3.3.0
R3-001977	25.433	194	2	Renaming UL interference	F	agreed	3.2.0	3.3.0
R3-001975	25.433	195	1	compress mode	F	agreed	3.2.0	3.3.0
R3-002088	25.433	196	1	Clarification to the RL Failure procedure	F	agreed	3.2.0	3.3.0
R3-001917	25.433	197		object identifier value for NBAP	F	agreed	3.2.0	3.3.0
R3-001945	25.433	198		correction of errors and misalignments in the ASN.1	F	agreed	3.2.0	3.3.0
R3-002230	25.433	199	2	Correction of Burst Type IE and Midamble Shift IE in TDD	F	agreed	3.2.0	3.3.0
R3-002206	25.433	200	1	DSCH Corrections	F	agreed	3.2.0	3.3.0
R3-002185	25.433	203	1	BER at Uplink DTX for TDD	F	agreed	3.2.0	3.3.0

R3-002258	25.433	205	2	Correction to RL Addition, RL Reconfiguration Prepare, and	F	agreed	3.2.0	3.3.0
R3-002255	25.433	207	1	TDD CCTrCH power control ambiguity	F	agreed	3.2.0	3.3.0
R3-002085	25.433	208		Renaming of Timeslot ISCP	F	agreed	3.2.0	3.3.0
R3-002231	25.433	211	1	Correction to FDD DL Channelisation Code Number	F	agreed	3.2.0	3.3.0
R3-002215	25.433	214	1	Resource status indication clarification	F	agreed	3.2.0	3.3.0
R3-002256	25.433	218	1	Edditorial Correction in Tabular format for CPCH	D	agreed	3.2.0	3.3.0
R3-002156	25.433	219		Correction in Common measurement report message	F	agreed	3.2.0	3.3.0
R3-002260	25.433	220	1	Power Offset for AP-AICH, CD/CA-ICH and CSICH	F	agreed	3.2.0	3.3.0

<h2 style="margin: 0;">CHANGE REQUEST</h2>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>25.433</b>	<b>CR 190r3</b>	Current Version: <b>3.2.0</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑	↑ CR number as allocated by MCC support team	
For submission to: <b>TSG RAN#9</b> <i>list expected approval meeting # here</i> ↑	for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
 (at least one should be marked with an X)

**Source:** R-WG3 **Date:** 2000-08-22

**Subject:** Iub Admission Control

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
 A Corresponds to a correction in an earlier release  Release 96   
 B Addition of feature  Release 97   
 C Functional modification of feature  Release 98   
 D Editorial modification  Release 99   
 Release 00

(only one category shall be marked with an X)

**Reason for change:**

CR190r3: Allocation retention priority in RL FAILURE is changed to retention priority.

CR190r2: Clarification of how the retention is to be done is added. It is highlighted in yellow.

CR190r1: Allocation part is removed. Only Retention part is kept.

CR190:  
 According to principles agreed, each node shall manage it's own equipment. This means that each node shall make admission control towards the node internal equipment.

To not make a model of equipment of Node B in the CRNC and still have the possibility to perform admission control based on priority, it is proposed that the Allocation/Retention Priority is used to inform the Node B about the priority of the connection. That priority is used for admission control of Node B internal resources. The thresholds for allowing a certain priority to get a connection are set by implementation specific O&M.

**Clauses affected:** 8.2.17.2, 8.3.2.2, 8.3.5.2, **8.3.13**, 9.1.36, 9.1.42, 9.1.47, 9.2.1.x, 9.3.3 and 9.3.4.

**Other specs affected:**

Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	
Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
MS test specifications	<input type="checkbox"/>	→ List of CRs:	
BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
O&M specifications	<input type="checkbox"/>	→ List of CRs:	

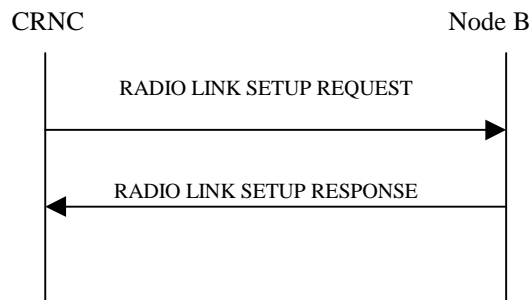
**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

## 8.2.17.2 Successful Operation



**Figure 1: Radio Link Setup procedure: Successful Operation**

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

Upon reception of 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.

[FDD – The RL Setup procedure can be used to setup one or more radio links. The procedure shall include the establishment of one or more DCHs on all radio links, and in addition, it can include the establishment of one or more DSCHs on one radio link.]

[TDD – The RL Setup procedure is used for setup of one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs. The Radio Link Setup Request message shall include the required TFS and TFCS for the DCH, DSCH and USCH channels.]

[FDD - The *First RLS Indicator IE* indicates if the concerning RL shall be considered part of the first RLS established towards this UE. If the *First RLS indicator IE* is set to "first RLS", the Node B shall use a TPC pattern of  $n \cdot "01" + "1"$  in the DL of the concerning RL and all RLs which are part of the same RLS, until UL synchronisation is achieved on the Uu. The parameter  $n$  shall be set equal to the value received in the *DL TPC pattern 01 count IE* in the Cell Setup procedure. The TPC pattern shall continuously be repeated but shall be restarted at the beginning of every frame with  $CFN \bmod 4 = 0$ . For all other RLs, the Node B shall use a TPC pattern of all "1"s in the DL until UL synchronisation is achieved on the Uu.]

[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* indicates, "may be combined with already existing RLs", then 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. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Info IE* with multiple *DCH Specific Info IEs* then, the Node B shall treat the DCHs in the *DCH Info 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.

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* 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]. 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]].

[TDD - For USCHs with the *QE-Selector IE* set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical

channel BER shall be used for the QE, ref. [24]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24].

The *Retention Priority IE* defines the priority level that should be used by the Node B to prioritise the retention of the resources used by the DCHes in error situation.

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 ~~configuration-RL(s)~~ has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *Propagation Delay IE* is included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD - The *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.]

[FDD - The Node B shall start the DL transmission using the initial DL power specified in the message on each DL channelisation code of the RL until either UL synchronisation is achieved for the RLS or a DL POWER CONTROL REQUEST message is received. 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], chapter 5.2.1.2) with DPC MODE=0 and the power control procedure (see 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD - The Node B shall start the DL transmission using the initial DL power specified in the message on each DL channelisation code and on each Time Slot of the RL until the UL synchronisation 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], chapter 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

If the DSCH Information Group is present, the Node B shall configure the new DSCH(s) according to the parameters given in the message.

[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 when those are activated.]

[FDD- If the *Downlink compressed mode method* 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 immediately activate the indicated Transmission Gap Pattern Sequences. For each sequence the *TGCFN* refers to the latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the Node B shall behave as specified in ref. [25].]

[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.]

[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.]

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

If the RLs are successfully setup, the Node B shall start reception on the new RL(s) and respond with a RADIO LINK SETUP RESPONSE message.

[FDD - The Node B shall indicate with the *Diversity Indication* IE whether the RL is combined or not. In case of combining, only the *Reference RL ID* IE shall be included to indicate one of the existing RLs that the concerned RL is combined with. In case of not combining the Node B shall include in the RL SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

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

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

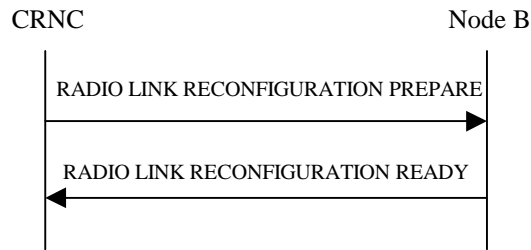
[TDD – The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

In case of coordinated DCH, the *Binding ID* IE and the *Transport Layer Address* IE shall be specify for only one of the coordinated DCHs.

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].

[FDD – When *Diversity Mode* IE is “*STTD*”, “*Closedloop mode1*”, or “*Closedloop mode2*”, the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE]

### 8.3.2.2 Successful Operation



**Figure 30: Synchronised Radio Link Reconfiguration procedure, Successful Operation**

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE 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.

#### DCH Modification:

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Retention Priority IE* for a DCH to be modified, the Node B should use this information to prioritise the retention of the resources used by the DCHes in error situation.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority IE* for a DCH to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set IE* for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set IE* for the DL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify IE* with 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.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode IE* for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS IE* for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE IE* for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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.

#### DCH Addition:

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to 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 and include these DCH in the new configuration.



If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Add* IE with multiple *DCH specific Info* IEs then, 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.

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* 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]. 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].

[TDD - For USCHs with the *QE-Selector* IE set to “selected”, the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the *QE-Selector* is set to “non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [24].]

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the Node B shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Downlink Channelisation Code* IEs, the Node B shall apply the new Downlink Channelisation Code(s) in the new configuration.]

[FDD- If the RADIO LINK RECONFIGURATION PREPARE contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

[FDD - The Node B shall use the *TFCS* IE for the UL 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 - The Node B shall use the *TFCS* IE for the DL 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 RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCCH Structure* IE, group the Node B shall set the new Uplink DPCCCH Structure to the new configuration.]

If the RADIO LINK RECONFIGURATION PREPARE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target* IE, the Node B shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

If the RADIO LINK RECONFIGURATION PREPARE 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

#### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any of *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 RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be added , the Node B shall include this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be deleted, the Node B shall remove this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be modified, and includes any of *TDD Channelisation Code* IE, *Burst Type* IE, *Midamble shift* 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 DPCH are still applicable.]

#### [TDD – UL/DL CCTrCH Addition]

[TDD -If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be added , the Node B shall include this CCTrCH in the new configuration.]

[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.]

#### SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]

#### DSCH [TDD – and/or USCH] Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes DSCH information for the DSCHs to be added/modified/deleted 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. The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH code mapping* IE then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes. ]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

**[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 NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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 exist a Prepared Reconfiguration, as defined in chapter 3.1.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub DCH-information-response IE group shall be included only for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, the RL Information Response IE group shall be included only for one of the combined RLs.

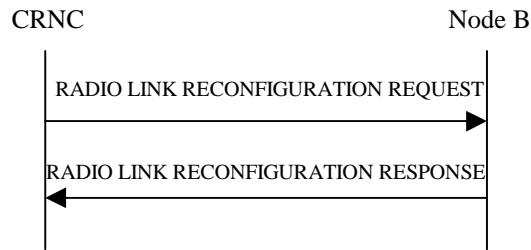
**Compressed Mode Preparation:**

[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.]

**RL Information:**

[TDD - If the *DL Time Slot ISCP IE* is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]

### 8.3.5.2 Successful Operation



**Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation**

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION REQUEST 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.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Retention Priority IE* for a DCH to be modified, the Node B should use this new value to prioritise the retention of the resources used by the DCHes in error situation.

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Frame Handling Priority IE* for a DCH to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Format Set IE* for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Format Set IE* for the DL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Modify IE* with 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.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *UL FP Mode IE* for a DCH or a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS IE* for a DCH or a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE IE* for a DCH or a set of co-ordinated DCHs to be modified, 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.

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be added to 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 and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Add IE* with multiple *DCH Specific Info IEs* then the *DCH Combination Indicator IE* 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.

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* 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]. 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].

[TDD - For USCHs with the *QE-Selector* IE set to “selected”, the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the *QE-Selector* is set to “non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [24].

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the UL, the Node B shall apply the new TFCS in the Uplink of the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]

If the RADIO LINK RECONFIGURATION REQUEST includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

If the RADIO LINK RECONFIGURATION REQUEST 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is 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 contains the *DL Code Information IE group* for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

**[TDD - UL/DL CCTrCH Modification]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST 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.]

**[TDD – UL/DL CCTrCH Deletion]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any UL or DL CCTrCH to be deleted, the Node B shall not include this CCTrCH in the new configuration.]

**DSCH [TDD – and/or USCH] Addition/Modification/Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes DSCH information for the DSCHs to be added/modified/deleted then the NodeB 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. The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *PDSCH code mapping IE* then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes. ]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *PDSCH RL ID IE* then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

**[TDD - USCH Addition/Modification/Deletion:]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes USCH information for the USCHs to be added/modified/deleted then the NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the DCH-information-response IE group shall be included for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, RL Information Response IE group shall be included only for one of the combined Radio Links.

**Compressed Mode Preparation:**

[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.]

**RL Information:**

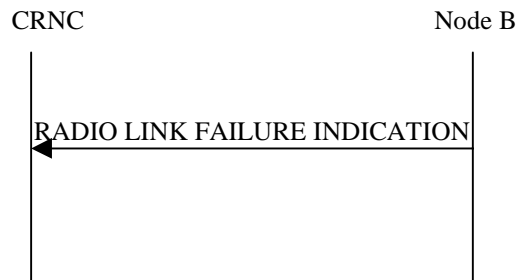
[TDD - If the *DL Time Slot ISCP IE* is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]

## 8.3.12 Radio Link Failure

### 8.3.12.1 General

This procedure is used by Node B to indicate a failure in one or more Radio Links or Radio Link Sets.

### 8.3.12.2 Successful Operation



**Figure 43: Radio Link Failure procedure: Successful Operation**

When Node B detects that one or more Radio Link or Radio Link Sets is no longer available, it sends the RADIO LINK FAILURE INDICATION message to CRNC indicating the failed Radio Links or Radio Link Sets with the most appropriate cause values in the *Cause* IE. If the failure concerns one or more individual Radio Links the Node B shall indicate the affected Radio Link(s) using the *RL Information* IE group. [FDD - If the failure concerns one or more Radio Link Sets the Node B shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE group.]

**In the other cases Radio Link Failure procedure is used to indicate that one or more Radio Links/Radio Link Sets 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 UE context, or the UE context itself. When applicable, the retention priorities associated to the transport channels shall be used by the Node B to prioritise which Radio Links/Radio Link Sets to indicate as unavailable to the CRNC.**

When the Radio Link Failure procedure is used to notify the loss of UL synchronisation, the message shall be sent when indicated by the UL out-of-sync algorithm defined in [10] and [21]. [FDD – The algorithm in [10] shall use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFailure, and the minimum value of the parameters N\_INSYNC\_IND, that are configured in the cells supporting the radio links of the RL Set].

Typical cause values are:

#### Radio Network Layer Causes:

- Synchronisation Failure

#### Miscellaneous Causes:

- Control Processing Overload
- HW Failure
- O&M Intervention

### 8.3.12.3 Abnormal Conditions

-

## 9.1.36 RADIO LINK SETUP REQUEST

### 9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.59		–	
>Min UL Channelisation Code length	M		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.21		–	
>puncture limit	M		9.2.1.50	For UL	–	
>TFCS	M		9.2.1.58	for UL	–	
>UL DPCCH Slot Format	M		9.2.2.57		–	
> UL SIR Target	M		UL SIR 9.2.2.58		–	
>Diversity mode	M		9.2.2.29		–	
>D Field Length	C – FB		9.2.2.5		–	
>SSDT cell ID Length	O		9.2.2.45		–	
>S Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>					YES	reject
>TFCS	M		9.2.1.58	For DL	–	
>DL DPCH Slot Format	M		9.2.2.10		–	
>TFCI signalling mode	M		9.2.2.50		–	
>TFCI presence	C- SlotFormat		9.2.1.57		–	
>Multiplexing Position	M		9.2.2.29		–	
>PDSCH RL ID	C-DSCH		RL ID 9.2.1.53		–	
>PDSCH code mapping	C-DSCH		9.2.2.25		–	
<b>&gt;Power Offset Information</b>		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		–	
>Limited Power Increase	M				–	
<b>DCH Information</b>		1 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M				–	
>UL FP mode	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	



>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For UL	–	
>>Transport Format Set	M		9.2.1.59	For DL	–	
>>Retention Priority	M		9.2.1.x		–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M				–	
<b>DSCH Information</b>		0 to <maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For DSCH	–	
>Retention Priority	M		9.2.1.x		–	
>Frame handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>RL Information</b>		1 to <maxnoof RLs>			EACH	notify
>RL ID	M		9.2.1.53		–	
>C-ID	M		9.2.1.9		–	
>First RLS Indicator	M				–	
>Frame Offset	M		9.2.1.31		–	
>Chip Offset	M		9.2.2.2		–	
>Propagation Delay	O		9.2.2.35		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.7		–	
<b>&gt;DL Code Information</b>		1 to <maxnoof- DLCodes			–	
>>DL Scrambling Code	M		9.2.2.13		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				–	
>Initial DL transmission Power	M		DL Power 9.2.1.21		–	
>Maximum DL power	M		DL Power 9.2.1.21		–	
>Minimum DL power	M		DL Power 9.2.1.21		–	
>SSDT Cell Identity	O		9.2.2.44		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53			
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.
DSCH	This IE is present only if the DSCH Information group is present
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDLCodes	Maximum number of DL code information.

## 9.1.36.2 TDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH Information</b>		0 to <maxno CCTrCH>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
<b>UL DPCH Information</b>		0 to <maxnoOf DPCH>			GLOBAL	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.1.16		–	
>Repetition Length	M		9.2.1.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>DL CCTrCH Information</b>		0 to <maxno CCTrCH>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
>TDD TPC DL Step Size	M		9.2.3.21			
<b>DL DPCH information</b>		0 to <maxnoOf DPCH>			GLOBAL	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.3.16		–	
>Repetition Length	M		9.2.3.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>DCH Information</b>		0 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M				–	
>UL FP mode	M				–	

>ToAWS	M				–	
>ToAWE	M				–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped	–	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.59	For UL	–	
>>Transport Format Set	M		9.2.1.59	For DL	–	
>>Retention Priority	<u>M</u>		<u>9.2.1.x</u>		<u>–</u>	
>>Frame Handling Priority	O		9.2.1.30		–	
>>QE-Selector	M				–	
<b>DSCH Information</b>		0 to <Maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	M		9.2.1.59	For DSCH	–	
>Retention Priority	<u>M</u>		<u>9.2.1.x</u>		<u>–</u>	
>Frame handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>USCH Information</b>		0 to <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M		9.2.1.59	For USCH	–	
>Retention Priority	<u>M</u>		<u>9.2.1.x</u>		<u>–</u>	
>QE-Selector	M				–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.53		–	
>C-ID	M		9.2.1.9		–	
>Frame Offset	M		9.2.1.31		–	
>Initial DL transmission Power	M		DL Powe 9.2.1.21r		–	
>Maximum DL power	M		DL Power 9.2.1.21		–	
>Minimum DL power	M		DL Power 9.2.1.21		–	

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of DCHs for one UE
maxnoOfDPCH	Maximum number of DPCH in one CCTrCH
maxnoCCTrCH	Number of CCTrCH for one UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE
MaxnoofUSCHs	Maximum number of USCH for one UE

## 9.1.42 RADIO LINK RECONFIGURATION PREPARE

### 9.1.42.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling code	O		9.2.2.59		–	
>UL SIR Target	O		UL SIR 9.2.2.58			
>Min UL Channelisation Code Length	O		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.20		–	
>Puncture Limit	O		9.2.1.50	For UL	–	
>TFCS	O		9.2.1.58		–	
>UL DPCCH Slot Format	O		9.2.2.57		–	
>SSDT Cell Identity Length	O		9.2.2.45		–	
>S-Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>		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-Slot Format		9.2.1.57		–	
>Multiplexing Position	O		9.2.2.23		–	
>PDSCH code mapping	O		9.2.2.25			
>PDSCH RL ID	O		RL ID 9.2.1.53			
>Limited Power Increase	O				–	
<b>DCHs to Modify</b>		0..<max noofDC Hs>			GLOBAL	reject
>UL FP Mode	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Retention Priority	<u>O</u>		<u>9.2.1.x</u>		<u>–</u>	
>>Frame Handling Priority	O		9.2.1.20		–	
<b>DCHs to Add</b>		0..<max noofDC Hs>			GLOBAL	reject
>Payload CRC Presence Indicator	M				–	
>UL FP Mode	M				–	

>ToAWS	M				–	
>ToAWE	M				–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;max noofDC Hs&gt;</i>			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Retention Priority	<u>M</u>		<u>9.2.1.x</u>		=	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M				–	
<b>DCHs to Delete</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH to modify</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	O		9.2.1.59	For the DL.	–	
>Retention Priority	<u>O</u>		<u>9.2.1.x</u>		=	
>Frame Handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH to add</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For the DL.	–	
>Retention Priority	<u>M</u>		<u>9.2.1.x</u>		=	
>Frame Handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH to Delete</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
<b>RL Information</b>		<i>0..&lt;max noofRLs &gt;</i>			EACH	reject
>RL ID	M		9.2.1.53		–	
<b>&gt;DL Code Information</b>		<i>0..&lt;max noofDL Codes&lt;</i>			–	
>>DL Scrambling Code	O		9.2.2.12		–	
>>FDD DL Channelisation Code Number	O		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				–	
>Maximum DL Power	O		DL Power 9.2.1.21		–	
>Minimum DL Power	O		DL Power 9.2.1.21		–	
>SSDT Indication	O		9.2.2.47		–	
>SSDT Cell Identity	C– SSDTIndON		9.2.2.44		–	
Transmission Gap Pattern Sequence Information	O				YES	reject

Condition	Explanation
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.



## 9.1.42.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH to Add</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
<b>&gt;UL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
>>Burst Type	M		9.2.3.2		–	
>>Midamble Shift	M		9.2.3.7		–	
>>Time Slot	M		9.2.3.23		–	
>>TDD Physical channel Offset	M		9.2.3.20		–	
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TFCI Presence	M		9.2.1.57		–	
<b>UL CCTrCH to Modify</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M				–	
>TFCS	O				–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>&gt;UL DPCH to add</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	M				–	
>>Burst Type	M				–	
>>Midamble Shift	M				–	
>>Time Slot	M				–	
>>TDD Physical channel Offset	M				–	
>>Repetition Period	M				–	
>>Repetition Length	M				–	

>>TFCI Presence	M				–	
<b>&gt;UL DPCH to modify</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	O				–	
>>Burst Type	O				–	
>>Midamble Shift	O				–	
>>Time Slot	O				–	
>>TDD Physical channel Offset	O				–	
>>Repetition Period	O				–	
>>Repetition Length	O				–	
>>TFCI Presence	O				–	
<b>&gt;UL DPCH to delete</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
<b>UL CCTrCH to Delete</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M				–	
<b>DL CCTrCH to Add</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>PunctureLimit	M		9.2.1.50		–	
<b>&gt;DL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
>>Burst Type	M		9.2.3.2		–	
>>Midamble Shift	M		9.2.3.7		–	
>>Time Slot	M		9.2.3.23		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TFCI Presence	M		9.2.1.57		–	
<b>DL CCTrCH to Modify</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M				–	
>TFCS	O				–	
>TFCI Coding	O				–	
>PunctureLimit	O				–	

<b>&gt;DL DPCH to add</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	M				-	
>>Burst Type	M				-	
>>Midamble Shift	M				-	
>>Time Slot	M				-	
>>TDD Physical Channel Offset	M				-	
>>Repetition Period	M				-	
>>Repetition Length	M				-	
>>TFCI Presence	M				-	
<b>&gt;DL DPCH to modify</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	O				-	
>>Burst Type	O				-	
>>Midamble Shift	O				-	
>>Time Slot	O				-	
>>TDD Physical Channel Offset	O				-	
>>Repetition Period	O				-	
>>Repetition Length	O				-	
>>TFCI Presence	O				-	
<b>&gt;DL DPCH to delete</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
<b>DL CCTrCH to Delete</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M				-	
<b>DCHs to Modify</b>		0..<max noofDC Hs>			GLOBAL	reject
>UL FP Mode	O				-	
>ToAWS	O				-	
>ToAWE	O				-	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			-	
>>DCH ID	M		9.2.1.20		-	
>>CCTrCH ID	O		9.2.3.3	UL CCTrCH in which the DCH is mapped.	-	
>>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DCH is mapped	-	
>>Transport Format Set	O		9.2.1.59	For the UL.	-	
>>Transport Format Set	O		9.2.1.59	For the DL.	-	

>>Retention Priority	<u>O</u>		9.2.1.x		=	
>>Frame Handling Priority	O		9.2.1.30		-	
<b>DCHs to Add</b>		0..<max noofDC Hs>			GLOBAL	reject
>Payload CRC Presence Indicator	M				-	
>UL FP Mode	M				-	
>ToAWS	M				-	
>ToAWE	M				-	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			-	
>>DCH ID	M		9.2.1.20		-	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped.	-	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	-	
>>Transport Format Set	M		9.2.1.59	For the UL.	-	
>>Transport Format Set	M		9.2.1.59	For the DL.	-	
>>Retention Priority	<u>M</u>		9.2.1.x		=	
>>Frame Handling Priority	M		9.2.1.30		-	
<b>DCHs to Delete</b>		0..<max noofDC Hs>			GLOBAL	reject
>DCH ID	M		9.2.1.20		-	
<b>DSCH Information to modify</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M		9.2.1.27		-	
>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	O		9.2.1.59		-	
>Retention Priority	<u>O</u>		9.2.1.x		=	
>Frame handling Priority	O		9.2.1.30		-	
>ToAWS	O		9.2.1.61		-	
>ToAWE	O		9.2.1.60		-	
<b>DSCH Information to add</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M		9.2.1.27		-	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	M		9.2.1.59		-	
>Retention Priority	<u>M</u>		9.2.1.x		=	
>Frame handling Priority	O		9.2.1.30		-	
>ToAWS	M		9.2.1.61		-	
>ToAWE	M		9.2.1.60		-	

<b>DSCH Information to delete</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
<b>USCH Information to modify</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>Transport Format Set	O		9.2.1.59		–	
>Retention Priority	<u>O</u>		9.2.1.x		=	
>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the USCH is mapped	–	
<b>USCH Information to add</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>Retention Priority	<u>M</u>		9.2.1.x		=	
>QE-Selector	M				–	
<b>USCH Information to delete</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
<b>RL Information</b>		0..1			YES	reject
>RL ID	M		9.2.1.53		–	
>Maximum Downlink Power	O		DL Power 9.2.1.21		–	
>Minimum Downlink Power	O		DL Power 9.2.1.21		–	

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>Maxnoof DPCHs</i>	Maximum number of DPCHs in one CCTrCH.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

## 9.1.47 RADIO LINK RECONFIGURATION REQUEST

### 9.1.47.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.58	For the UL.	–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.58	For the DL.	–	
>TFCI Signalling Mode	O		9.2.2.50		–	
>PDSCH code mapping	O		9.2.2.25			
>PDSCH RL ID	O		RL ID 9.2.1.53			
>Limited Power Increase	O				–	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>UL FP Mode	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Retention Priority	O		9.2.1.x		–	
>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>Payload CRC Presence Indicator	M				–	
>UL FP mode	M				–	
>ToAWS	M				–	
>ToAWE	M				–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Retention Priority	M		9.2.1.x		–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M				–	
<b>DCHs to Delete</b>		0..<maxn oofDCHs >			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	

<b>DSCH to Modify</b>		<i>0..&lt;maxn oofDSCH s&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	O		9.2.1.59	For the DL.	–	
> <u>Retention Priority</u>	<u>O</u>		<u>9.2.1.x</u>		<u>–</u>	
>Frame Handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH to Add</b>		<i>0..&lt;maxn oofDSCH s&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For the DL.	–	
> <u>Retention Priority</u>	<u>M</u>		<u>9.2.1.x</u>		<u>–</u>	
>Frame Handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH to Delete</b>		<i>0..1</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
<b>Radio Link Information</b>		<i>0..&lt;maxn oofRLs&gt;</i>			EACH	reject
>RL ID	M		9.2.1.53		–	
>Maximum DL Power	O		DL Power 9.2.1.53		–	
>Minimum DL Power	O		DL Power 9.2.1.53		–	
<b>&gt;DL Code Information</b>	C-SF/2	<i>0..&lt;maxn oofDLCo des&lt;</i>			–	
>>DL Scrambling Code	O				–	
>>FDD DL Channelisation Code Number	O				–	
>>Transmission Gap Pattern sequence Code Information	O				–	
Transmission Gap Pattern Sequence Information	O				YES	reject

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.

Condition	Explanation
SF/2	This IE group is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

## 9.1.47.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH to modify</b>		0..<maxn oofCCTr CHs>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
<b>UL CCTrCH to delete</b>		0..<maxn oofCCTr CHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DL CCTrCH to modify</b>		0..<maxn oofCCTr CHs>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
<b>DL CCTrCH to delete</b>		0..<maxn oofCCTr CHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>UL FP Mode	O				–	
>ToAWS	O				–	
>ToAWE	O				–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	O		9.2.3.3	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Retention Priority	<u>O</u>		<u>9.2.1.x</u>		<u>–</u>	
>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>Payload CRC Presence Indicator	M				–	
>UL FP Mode	M				–	



>ToAWS	M				–	
>ToAWE	M				–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Retention Priority	<u>M</u>		<u>9.2.1.x</u>		<u>–</u>	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M				–	
<b>DCHs to Delete</b>		0..<maxn oofDSCH s>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH Information to modify</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	O		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	O		9.2.1.59		–	
>Retention Priority	<u>O</u>		<u>9.2.1.x</u>		<u>–</u>	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH Information to add</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.29		–	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>Retention Priority	<u>M</u>		<u>9.2.1.x</u>		<u>–</u>	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH Information to delete</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
<b>USCH Information to modify</b>		0 .. <Maxnoo f USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	

>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	O		9.2.1.59		–	
>Retention Priority	<u>O</u>		<u>9.2.1.x</u>		<u>=</u>	
<b>USCH Information to add</b>		0 .. <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>Retention Priority	<u>M</u>		<u>9.2.1.x</u>		<u>=</u>	
>QE-Selector	M				–	
<b>USCH Information to delete</b>		0 .. <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
<b>RL Information</b>		0..1			YES	reject
>RL ID	M		9.2.1.53		–	
>Maximum Downlink Power	O		DL Power 9.2.1.21		–	
>Minimum Downlink Power	O		DL Power 9.2.1.21		–	
>Time slot ISCP Info		0..<maxnoofDLts>			–	
>>Time slot	M				–	
>>DL Time slot ISCP	M				–	

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE
<i>MaxnoofDLts</i>	Maximum number of Downlink time slots per Radio Link

### 9.2.1.x Retention Priority

The Node B may use the Retention priority information of the transport channels composing the RL to prioritise which RL shall be set to failure, in case prioritisation is possible.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Retention Priority</u>			<u>INTEGER</u> <u>(0..15)</u>	<u>0=Lowest Priority,</u> <u>...</u> <u>15=Highest Priority</u>

### 9.3.3 NBAP PDU Content Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    RetentionPriority,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCTrCH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
    Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    ConfigurationGenerationID,
    ConstantValue,

```

```
CriticalityDiagnostics,  
CPCH-Allowed-Total-Rate,  
CPCHScramblingCodeNumber,  
CPCH-UL-DPCCH-SlotFormat,  
CRNC-CommunicationContextID,  
DCH-ID,  
DedicatedChannelsCapacityConsumptionLaw,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DLPowerAveragingWindowSize,  
DL-ScramblingCode,  
DL-TimeslotISCP,  
DL-TPC-Pattern01Count,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FrameHandlingPriority,  
FrameOffset,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
Max-Number-of-PCPCHes,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NEOT,  
NFmax,  
N-INSYNC-IND,  
N-OUTSYNC-IND,
```

NodeB-CommunicationContextID,  
NStartMessage,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PCP-Length,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerOffset,  
PowerRaiseLimit,  
PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
ScramblingCodeNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
T-RLFAILURE,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,

TDD-PhysicalChannelOffset,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,  
  
TransmissionGapPatternSequenceCodeInformation,  
Transmission-Gap-Pattern-Sequence-Information,  
TransportFormatSet,  
TransportLayerAddress,  
TSTD-Indicator,  
UARFCN,  
UL-CapacityCredit,  
UL-DPCCH-SlotFormat,  
UL-SIR,  
UL-FP-Mode,  
UL-InterferenceLevel,  
UL-ScramblingCode,  
USCH-ID

```

-- *****
--
-- 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
      mandatory }|
    { ID id-DCH-InformationList-RL-SetupRqstFDD  CRITICALITY reject          TYPE DCH-InformationList-RL-SetupRqstFDD  PRESENCE
      mandatory }|
    { ID id-DSCH-InformationList-RL-SetupRqstFDD CRITICALITY reject          TYPE DSCH-InformationList-RL-SetupRqstFDD  PRESENCE
      optional }|
    { 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 ::= {
    ...
}

UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    ul-ScramblingCode          UL-ScramblingCode,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
    maxNrOfUL-DPDCHs           MaxNrOfUL-DPDCHs          OPTIONAL,
    -- This IE is present only if "Min UL Channelisation Code length" equals to 4 --
    ul-PunctureLimit           PunctureLimit,
    tFCS                        TFCS,
    ul-DPCCH-SlotFormat         UL-DPCCH-SlotFormat,
    ul-SIR-Target               UL-SIR,
    diversityMode               DiversityMode,
    d-FieldLength               D-FieldLength          OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated -- ,
    sSDT-CellID-Length          SSdT-CellID-Length     OPTIONAL,
    s-FieldLength               S-FieldLength          OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
}

```



```

}
...
}
UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
tFCS                                TFCS,
dl-DPCH-SlotFormat                  DL-DPCH-SlotFormat,
tFCI-SignallingMode                  TFCI-SignallingMode,
tFCI-Presence                        TFCI-Presence OPTIONAL,
-- this IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16 --
multiplexingPosition                 MultiplexingPosition,
pDSCH-RL-ID                          RL-ID OPTIONAL,
-- This IE is present only if the DSCH Information group is present --
pDSCH-CodeMapping                    PDSCH-CodeMapping OPTIONAL,
-- This IE is present only if the DSCH Information group is present --
powerOffsetInformation                PowerOffsetInformation-RL-SetupRqstFDD,
fdd-TPC-DownlinkStepSize              FDD-TPC-DownlinkStepSize,
limitedPowerIncrease                  LimitedPowerIncrease,
iE-Extensions                         ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
...
}
DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
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 ::= {
...
}
DCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstFDD
DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
payloadCRC-PresenceIndicator          PayloadCRC-PresenceIndicator,
ul-FP-Mode                            UL-FP-Mode,
toAWS                                  ToAWS,
toAWE                                  ToAWE,
dCH-SpecificInformationList           DCH-SpecificInformationList-RL-SetupRqstFDD,
iE-Extensions                         ProtocolExtensionContainer { { DCH-InformationItem-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
...
}

```

```

}

DCH-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-SpecificInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstFDD

DCH-SpecificItem-RL-SetupRqstFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    retentionPriority      RetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    qE-Selector           QE-Selector,
    iE-Extensions         ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstFDD

DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dSCH-TFS               DSCH-TFS,
    retentionPriority      RetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
    ProtocolIE-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,
propagationDelay                   PropagationDelay          OPTIONAL,
diversityControlField              DiversityControlField      OPTIONAL,
-- This IE is present only if the RL is not the first one in the RL Information
dl-CodeInformationList             DL-CodeInformationList-RL-SetupRqstFDD,
initialDL-transmissionPower        DL-Power,
maximumDL-power                   DL-Power,
minimumDL-power                   DL-Power,
sSDT-Cell-Identity                SSdT-Cell-Identity        OPTIONAL,
transmitDiversityIndicator         TransmitDiversityIndicator OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
iE-Extensions                      ProtocolExtensionContainer { { RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

RL-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CodeInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCodes)) OF DL-CodeInformationItem-RL-SetupRqstFDD

DL-CodeInformationItem-RL-SetupRqstFDD ::= SEQUENCE {
dl-ScramblingCode                 DL-ScramblingCode,
fdd-DL-ChannelisationCodeNumber   FDD-DL-ChannelisationCodeNumber,
transmissionGapPatternSequenceCodeInformation TransmissionGapPatternSequenceCodeInformation OPTIONAL,
-- This IE is present only if Downlink compressed mode method is set to "SF/2" in the Transmission Gap Pattern Sequence Information IE.
iE-Extensions                      ProtocolExtensionContainer { { DL-CodeInformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

DL-CodeInformationItem-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-UL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE UL-DPCH-InformationList-RL-SetupRqstTDD PRESENCE
      PRESENCE optional }|
    { ID id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE
      optional }|
    { ID id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE DL-DPCH-InformationList-RL-SetupRqstTDD PRESENCE
      PRESENCE optional }|
    { ID id-DCH-InformationList-RL-SetupRqstTDD    CRITICALITY reject          TYPE DCH-InformationList-RL-SetupRqstTDD    PRESENCE
      optional }|
    { ID id-DSCH-InformationList-RL-SetupRqstTDD   CRITICALITY reject          TYPE DSCH-InformationList-RL-SetupRqstTDD   PRESENCE
      optional }|
    { ID id-USCH-InformationList-RL-SetupRqstTDD   CRITICALITY reject          TYPE USCH-InformationList-RL-SetupRqstTDD   PRESENCE
      optional }|
    { ID id-RL-Information-RL-SetupRqstTDD         CRITICALITY reject          TYPE RL-Information-RL-SetupRqstTDD         PRESENCE
      mandatory },
    ...
}
```

```
RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF
    ProtocolIE-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               TFCS,
    tFCI-Coding        TFCI-Coding,
```

```

    punctureLimit          PunctureLimit,
    iE-Extensions          ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationItem-RL-SetupRqstTDD

UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift         MidambleShift,
    timeSlot              TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tFCI-Presence         TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container{{ DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD
}}

DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD          CRITICALITY    notify          TYPE DL-CCTrCH-InformationItem-RL-SetupRqstTDD
    PRESENCE  mandatory},
    ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID            CCTrCH-ID,
    tFCS                 TFCS,
    tFCI-Coding          TFCI-Coding,
    punctureLimit        PunctureLimit,
    tdd-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize,
    iE-Extensions        ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationItem-RL-SetupRqstTDD

DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstTDD

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                   UL-FP-Mode,
    toAWS                          ToAWS,
    toAWE                          ToAWE,
    dCH-SpecificInformationList    DCH-SpecificInformationList-RL-SetupRqstTDD,
    iE-Extensions                  ProtocolExtensionContainer { { DCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-SpecificInformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstTDD

DCH-SpecificItem-RL-SetupRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    retentionPriority      RetentionPriority,
    frameHandlingPriority  FrameHandlingPriority OPTIONAL,
    qE-Selector            QE-Selector,
    iE-Extensions          ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstTDD

DSCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    retentionPriority       RetentionPriority,
    frameHandlingPriority   FrameHandlingPriority,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem-RL-SetupRqstTDD

USCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    retentionPriority       RetentionPriority,
    qE-Selector            QE-Selector,
    iE-Extensions          ProtocolExtensionContainer { { USCH-InformationItemIE-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

USCH-InformationItemIE-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Information-RL-SetupRqstTDD ::= SEQUENCE {
    rL-ID                  RL-ID,
    c-ID                   C-ID,
    frameOffset            FrameOffset,
    initialDL-transmissionPower DL-Power,
    maximumDL-power        DL-Power,
    minimumDL-power        DL-Power,
    iE-Extensions          ProtocolExtensionContainer { { RL-Information-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

RL-Information-RL-SetupRqstTDD-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-DCH-ModifyList-RL-ReconfPrepFDD        CRITICALITY reject          TYPE DCH-ModifyList-RL-ReconfPrepFDD        PRESENCE
      optional } |
    { ID id-DCH-AddList-RL-ReconfPrepFDD           CRITICALITY reject          TYPE DCH-AddList-RL-ReconfPrepFDD           PRESENCE
      optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD        CRITICALITY reject          TYPE DCH-DeleteList-RL-ReconfPrepFDD        PRESENCE
      optional } |
    { ID id-DSCH-ModifyList-RL-ReconfPrepFDD       CRITICALITY reject          TYPE DSCH-ModifyList-RL-ReconfPrepFDD       PRESENCE
      optional } |
    { ID id-DSCH-AddList-RL-ReconfPrepFDD          CRITICALITY reject          TYPE DSCH-AddList-RL-ReconfPrepFDD          PRESENCE
      optional } |
    { ID id-DSCH-DeleteList-RL-ReconfPrepFDD       CRITICALITY reject          TYPE DSCH-DeleteList-RL-ReconfPrepFDD       PRESENCE
      optional } |
    { ID id-RL-InformationList-RL-ReconfPrepFDD    CRITICALITY reject          TYPE RL-InformationList-RL-ReconfPrepFDD    PRESENCE
      optional } |
    { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject          TYPE Transmission-Gap-Pattern-Sequence-Information
      PRESENCE optional },
    ...
}
```

```
RadioLinkReconfigurationPrepareFDD-Extensions 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-DPDCHs          MaxNrOfUL-DPDCHs          OPTIONAL,
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4
    ul-PunctureLimit          PunctureLimit          OPTIONAL,
    tFCS                      TFCS          OPTIONAL,
    ul-DPCCH-SlotFormat        UL-DPCCH-SlotFormat        OPTIONAL,
```

```

sSDT-CellIDLength          SSDT-CellID-Length          OPTIONAL,
s-FieldLength              S-FieldLength          OPTIONAL,
iE-Extensions              ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
...
}

UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
tFCS                        TFCS                        OPTIONAL,
dl-DPCH-SlotFormat          DL-DPCH-SlotFormat          OPTIONAL,
tFCI-SignallingMode         TFCI-SignallingMode         OPTIONAL,
tFCI-Presence               TFCI-Presence              OPTIONAL,
-- This IE is only present if the DL DPCH Slot Format is equal to any of the value from 12 to 16
multiplexingPosition        MultiplexingPosition        OPTIONAL,
pDSCH-CodeMapping           PDSCH-CodeMapping          OPTIONAL,
pDSCH-RL-ID                 RL-ID                       OPTIONAL,
limitedPowerIncrease         LimitedPowerIncrease        OPTIONAL,
iE-Extensions              ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
...
}

DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepFDD

DCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
ul-FP-Mode                  UL-FP-Mode                  OPTIONAL,
toAWS                       ToAWS                      OPTIONAL,
toAWE                       ToAWE                      OPTIONAL,
dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfPrepFDD,
iE-Extensions              ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
...
}

DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-ModifySpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepFDD

DCH-ModifySpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
dCH-ID                      DCH-ID,
ul-TransportFormatSet       TransportFormatSet          OPTIONAL,
dl-TransportFormatSet       TransportFormatSet          OPTIONAL,
retentionPriority            RetentionPriority           OPTIONAL,
frameHandlingPriority        FrameHandlingPriority        OPTIONAL,

```

```

    iE-Extensions          ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepFDD

DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    dCH-SpecificInformationList       DCH-AddSpecificInformationList-RL-ReconfPrepFDD,
    iE-Extensions                    ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddSpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepFDD

DCH-AddSpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                            DCH-ID,
    ul-TransportFormatSet             TransportFormatSet,
    dl-TransportFormatSet             TransportFormatSet,
    retentionPriority                 RetentionPriority,
    frameHandlingPriority             FrameHandlingPriority,
    qE-Selector                       QE-Selector,
    iE-Extensions                    ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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 ::= {
    ...
}

```

```

}

DSCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-ModifyItemIE-RL-ReconfPrepFDD }}

DSCH-ModifyItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-DSCH-ModifyItem-RL-ReconfPrepFDD      CRITICALITY reject      TYPE      DSCH-ModifyItem-RL-ReconfPrepFDD      PRESENCE mandatory},
  ...
}

DSCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
  dSCH-ID                DSCH-ID,
  dl-TransportFormatSet  TransportFormatSet      OPTIONAL,
  retentionPriority       RetentionPriority      OPTIONAL,
  frameHandlingPriority  FrameHandlingPriority  OPTIONAL,
  toAWS                  ToAWS                OPTIONAL,
  toAWE                  ToAWE                OPTIONAL,
  iE-Extensions          ProtocolExtensionContainer { { DSCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs} }      OPTIONAL,
  ...
}

DSCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-AddItemIE-RL-ReconfPrepFDD }}

DSCH-AddItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-DSCH-AddItem-RL-ReconfPrepFDD      CRITICALITY reject      TYPE      DSCH-AddItem-RL-ReconfPrepFDD      PRESENCE mandatory},
  ...
}

DSCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
  dSCH-ID                DSCH-ID,
  dl-TransportFormatSet  TransportFormatSet,
  retentionPriority       RetentionPriority,
  frameHandlingPriority  FrameHandlingPriority,
  toAWS                  ToAWS,
  toAWE                  ToAWE,
  iE-Extensions          ProtocolExtensionContainer { { DSCH-AddItem-RL-ReconfPrepFDD-ExtIEs} }      OPTIONAL,
  ...
}

DSCH-AddItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-DeleteItemIE-RL-ReconfPrepFDD }}

DSCH-DeleteItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-DSCH-DeleteItem-RL-ReconfPrepFDD      CRITICALITY reject      TYPE      DSCH-DeleteItem-RL-ReconfPrepFDD      PRESENCE mandatory},
  ...
}

```

```

}

DSCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} }    OPTIONAL,
    ...
}

DSCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationItemIE-RL-ReconfPrepFDD }}

RL-InformationItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-RL-InformationItem-RL-ReconfPrepFDD          CRITICALITY    reject          TYPE  RL-InformationItem-RL-ReconfPrepFDD    PRESENCE
      mandatory},
    ...
}

RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    dl-CodeInformationList  DL-CodeInformationList-RL-ReconfPrepFDD    OPTIONAL,
    maxDL-Power           DL-Power                                OPTIONAL,
    minDL-Power           DL-Power                                OPTIONAL,
    sSDT-Indication       SSDT-Indication                        OPTIONAL,
    sSDT-Cell-Identity    SSDT-Cell-Identity                            OPTIONAL,
    -- The IE may be present if the SSDT Indication is set to SSDT Active in the UE
    iE-Extensions          ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfPrepFDD-ExtIEs} }    OPTIONAL,
    ...
}

RL-InformationItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CodeInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDLCodes)) OF DL-CodeInformationItem-RL-ReconfPrepFDD

DL-CodeInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dl-scramblingCode     DL-ScramblingCode                OPTIONAL,
    fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber    OPTIONAL,
    transmissionGapPatternSequenceCodeInformation  TransmissionGapPatternSequenceCodeInformation    OPTIONAL,
    -- This IE is present only if Downlink compressed mode method is set to "SF/2" in the Transmission Gap Pattern Sequence Information IE.
    iE-Extensions          ProtocolExtensionContainer { { DL-CodeInformationList-RL-ReconfPrepFDD-ExtIEs} }    OPTIONAL,
    ...
}

DL-CodeInformationList-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****
```

```
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-DCH-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE  DCH-ModifyList-RL-ReconfPrepTDD
    PRESENCE optional                                } |
    { ID      id-DCH-AddList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE  DCH-AddList-RL-ReconfPrepTDD
    PRESENCE optional                                } |
    { ID      id-DCH-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE  DCH-DeleteList-RL-ReconfPrepTDD
    PRESENCE optional                                } |
    { ID      id-DSCH-Information-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE  DSCH-Information-ModifyList-RL-ReconfPrepTDD
    PRESENCE optional                                } |
    { ID      id-DSCH-information-AddList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE   DSCH-Information-AddList-RL-ReconfPrepTDD
    PRESENCE optional                                } |
    { ID      id-DSCH-Information-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE  DSCH-Information-DeleteList-RL-ReconfPrepTDD
    PRESENCE optional                                } |
    { ID      id-USCH-Information-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE  USCH-Information-ModifyList-RL-ReconfPrepTDD
    PRESENCE optional                                } |
    { ID      id-USCH-information-AddList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE  USCH-Information-AddList-RL-ReconfPrepTDD
    PRESENCE optional                                } |
    { ID      id-USCH-Information-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE  USCH-Information-DeleteList-RL-ReconfPrepTDD
    PRESENCE optional                                } |
    { ID      id-RL-Information-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE  RL-Information-RL-ReconfPrepTDD
    PRESENCE optional                                },
    ...
}
```

```
RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
```

```

}
...
}
UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS              TFCS,
    tFCI-Coding       TFCI-Coding,
    punctureLimit     PunctureLimit,
    ul-DPCH-InformationList  UL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions     ProtocolExtensionContainer { { UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}
UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-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-InformationAddListIE-RL-ReconfPrepTDD      PRESENCE
mandatory },
    ...
}
UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationAddItem-RL-ReconfPrepTDD
UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID          DPCH-ID,
    tDD-ChannelisationCode  TDD-ChannelisationCode,
    burstType        BurstType,
    midambleShift    MidambleShift,
    timeSlot         TimeSlot,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
    repetitionPeriod  RepetitionPeriod,
    repetitionLength  RepetitionLength,
    tFCI-Presence     TFCI-Presence,
    iE-Extensions     ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}
UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
UL-CCTrCH-InformationModifyList-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,
ul-DPCH-InformationModifyList         UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD  OPTIONAL,
ul-DPCH-InformationDeleteList        UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD  OPTIONAL,
iE-Extensions                         ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }  OPTIONAL,
...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-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-AddListIE-RL-ReconfPrepTDD
  PRESENCE mandatory },
  ...
}

UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD

UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dPCH-ID                                DPCH-ID,
  tDD-ChannelisationCode                  TDD-ChannelisationCode,
  burstType                               BurstType,
  midambleShift                           MidambleShift,
  timeSlot                                TimeSlot,
  tdd-PhysicalChannelOffset               TDD-PhysicalChannelOffset,
  repetitionPeriod                        RepetitionPeriod,
  repetitionLength                        RepetitionLength,
  tFCI-Presence                           TFCI-Presence,
  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-Container {{ UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE UL-DPCH-InformationModify-ModifyListIE-RL-
  ReconfPrepTDD          PRESENCE mandatory },
  ...
}

UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD

```



```

UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode    OPTIONAL,
    burstType              BurstType                OPTIONAL,
    midambleShift          MidambleShift            OPTIONAL,
    timeslot               Timeslot                 OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    repetitionPeriod       RepetitionPeriod         OPTIONAL,
    repetitionLength       RepetitionLength         OPTIONAL,
    tFCI-Presence          TFCI-Presence            OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-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 } }
    OPTIONAL,
    ...
}

UL-DPCH-InformationModify-DeleteItem-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 {
    cCTrCH-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                      TFCS,
    tFCI-Coding              TFCI-Coding,
    punctureLimit            PunctureLimit,
    dl-DPCH-InformationList  DL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD          PRESENCE
    mandatory },
    ...
}

DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationAddItem-RL-ReconfPrepTDD

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot                TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod        RepetitionPeriod,
    rpetitionLength        RepetitionLength,
    tFCI-Presence           TFCI-Presence,
    iE-Extensions           ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-DPCH-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,
    tFCS                      TFCS
    OPTIONAL,

```

```

tFCI-Coding                TFCI-Coding                OPTIONAL,
punctureLimit              PunctureLimit              OPTIONAL,
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 ::= {
...
}

DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD
  PRESENCE mandatory },
  ...
}

DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dPCH-ID                DPCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  burstType              BurstType,
  midambleShift          MidambleShift,
  timeSlot               TimeSlot,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
  repetitionPeriod       RepetitionPeriod,
  rpetitionLength        RepetitionLength,
  tFCI-Presence          TFCI-Presence,
  iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }  OPTIONAL,
  ...
}

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE DL-DPCH-InformationModify-ModifyListIE-RL-
  ReconfPrepTDD          PRESENCE mandatory },
  ...
}

DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD

```

```

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode    OPTIONAL,
    burstType              BurstType                OPTIONAL,
    midambleShift         MidambleShift             OPTIONAL,
    timeSlot              TimeSlot                  OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    repetitionPeriod      RepetitionPeriod          OPTIONAL,
    rpetitionLength       RepetitionLength          OPTIONAL,
    tFCI-Presence         TFCI-Presence             OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

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-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-ExtIEs } }
    OPTIONAL,
    ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
DCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepTDD

DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    ul-FP-Mode          UL-FP-Mode          OPTIONAL,
    toAWS               ToAWS               OPTIONAL,
    toAWE               ToAWE               OPTIONAL,
    dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions      ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepTDD

DCH-ModifySpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    ul-cCTrCH-ID       CCTrCH-ID          OPTIONAL,
    dl-cCTrCH-ID       CCTrCH-ID          OPTIONAL,
    ul-TransportFormatSet TransportFormatSet OPTIONAL,
    dl-TransportFormatSet TransportFormatSet OPTIONAL,
    retentionPriority   RetentionPriority   OPTIONAL,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepTDD

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode          UL-FP-Mode,
    toAWS               ToAWS,
    toAWE               ToAWE,
    dCH-SpecificInformationList DCH-AddSpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions      ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

DCH-AddSpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepTDD

```
DCH-AddSpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    retentionPriority      RetentionPriority,
    frameHandlingPriority FrameHandlingPriority,
    qE-Selector           QE-Selector,
    iE-Extensions         ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs } }    OPTIONAL,
    ...
}
```

```
DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs  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-ExtIEs } }    OPTIONAL,
    ...
}
```

```
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD

```
DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID                OPTIONAL,
    transportFormatSet     TransportFormatSet       OPTIONAL,
    retentionPriority      RetentionPriority         OPTIONAL,
    frameHandlingPriority   FrameHandlingPriority    OPTIONAL,
    toAWS                  ToAWS                    OPTIONAL,
    toAWE                   ToAWE                    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }    OPTIONAL,
    ...
}
```

```
DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

DSCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-AddItem-RL-ReconfPrepTDD

```

DSCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    retentionPriority      RetentionPriority,
    frameHandlingPriority   FrameHandlingPriority    OPTIONAL,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD

DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD

USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatSet     TransportFormatSet    OPTIONAL,
    retentionPriority      RetentionPriority    OPTIONAL,
    cCTrCH-ID              CCTrCH-ID            OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-AddItem-RL-ReconfPrepTDD

USCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    retentionPriority      RetentionPriority,

```

```
    qE-Selector          QE-Selector,
    iE-Extensions        ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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 ::= {
    ...
}

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 ::= {
    ...
}
```



```
-- *****
--
-- 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-DCH-ModifyList-RL-ReconfRqstFDD      CRITICALITY reject TYPE DCH-ModifyList-RL-ReconfRqstFDD PRESENCE
    optional } |
    { ID id-DCH-AddList-RL-ReconfRqstFDD         CRITICALITY reject TYPE DCH-AddList-RL-ReconfRqstFDD PRESENCE
    optional } |
    { ID id-DCH-DeleteList-RL-ReconfRqstFDD      CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstFDD PRESENCE
    optional } |
    { ID id-DSCH-ModifyList-RL-ReconfRqstFDD     CRITICALITY reject TYPE DSCH-ModifyList-RL-ReconfRqstFDD PRESENCE
    optional } |
    { ID id-DSCH-AddList-RL-ReconfRqstFDD        CRITICALITY reject TYPE DSCH-AddList-RL-ReconfRqstFDD PRESENCE
    optional } |
    { ID id-DSCH-DeleteList-RL-ReconfRqstFDD     CRITICALITY reject TYPE DSCH-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 ::= {
    ...
}
```

```
UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    ul-TFCS          TFCS          OPTIONAL,
    iE-Extensions   ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}
```

```
UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```

}

DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    dl-TFCS                TFCS                OPTIONAL,
    tFCI-SignallingMode    TFCI-SignallingMode    OPTIONAL,
    pDSCH-CodeMapping      PDSCH-CodeMapping    OPTIONAL,
    pDSCH-RL-ID            RL-ID                OPTIONAL,
    limitedPowerIncrease    LimitedPowerIncrease    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}

DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifyList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRqstFDD

DCH-ModifyItem-RL-ReconfRqstFDD ::= SEQUENCE {
    ul-FP-Mode            UL-FP-Mode            OPTIONAL,
    toAWS                 ToAWS                 OPTIONAL,
    toAWE                 ToAWE                 OPTIONAL,
    dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfRqstFDD,
    iE-Extensions          ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfRqstFDD

DCH-ModifySpecificItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-TransportFormatSet TransportFormatSet    OPTIONAL,
    dl-TransportFormatSet TransportFormatSet    OPTIONAL,
    retentionPriority      RetentionPriority    OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority    OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRqstFDD

```

```

DCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    dCH-SpecificInformationList       DCH-AddSpecificInformationList-RL-ReconfRqstFDD,
    iE-Extensions                     ProtocolExtensionContainer { { DCH-Add-RL-ReconfRqstFDDItem-ExtIEs} } OPTIONAL,
    ...
}

DCH-Add-RL-ReconfRqstFDDItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddSpecificInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRqstFDD

DCH-AddSpecificItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID                            DCH-ID,
    ul-TransportFormatSet             TransportFormatSet,
    dl-TransportFormatSet             TransportFormatSet,
    retentionPriority                  RetentionPriority OPTIONAL,
    frameHandlingPriority              FrameHandlingPriority,
    qE-Selector                       QE-Selector,
    iE-Extensions                     ProtocolExtensionContainer { { DCH-AddSpecificItem-ExtIEs} } OPTIONAL,
    ...
}

DCH-AddSpecificItem-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 ::= {
    ...
}

DSCH-ModifyList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-ModifyItemIE-RL-ReconfRqstFDD }}

DSCH-ModifyItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DSCH-ModifyItem-RL-ReconfRqstFDD      CRITICALITY reject      TYPE      DSCH-ModifyItem-RL-ReconfRqstFDD      PRESENCE mandatory},
    ...
}

```

```

DSCH-ModifyItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dl-TransportFormatSet  TransportFormatSet      OPTIONAL,
    retentionPriority       RetentionPriority      OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority  OPTIONAL,
    toAWS                  ToAWS                OPTIONAL,
    toAWE                  ToAWE                OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs } }  OPTIONAL,
    ...
}

DSCH-ModifyItem-RL-ReconfRqstFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-AddList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-AddItemIE-RL-ReconfRqstFDD }}

DSCH-AddItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DSCH-AddItem-RL-ReconfRqstFDD      CRITICALITY reject      TYPE      DSCH-AddItem-RL-ReconfRqstFDD      PRESENCE mandatory},
    ...
}

DSCH-AddItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dl-TransportFormatSet  TransportFormatSet,
    retentionPriority       RetentionPriority,
    frameHandlingPriority  FrameHandlingPriority,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-AddItem-RL-ReconfRqstFDD-ExtIEs } }  OPTIONAL,
    ...
}

DSCH-AddItem-RL-ReconfRqstFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-DeleteList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-DeleteItemIE-RL-ReconfRqstFDD }}

DSCH-DeleteItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DSCH-DeleteItem-RL-ReconfRqstFDD      CRITICALITY reject      TYPE      DSCH-DeleteItem-RL-ReconfRqstFDD      PRESENCE mandatory},
    ...
}

DSCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs } }  OPTIONAL,
    ...
}

```

```

DSCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container {{ RL-InformationItemIE-RL-ReconfRqstFDD}}

RL-InformationItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-RL-InformationItem-RL-ReconfRqstFDD          CRITICALITY    reject          TYPE RL-InformationItem-RL-ReconfRqstFDD          PRESENCE
      mandatory},
    ...
}

RL-InformationItem-RL-ReconfRqstFDD ::= SEQUENCE {
    rL-ID                RL-ID,
    maxDL-Power          DL-Power          OPTIONAL,
    minDL-Power          DL-Power          OPTIONAL,
    dl-CodeInformationList  DL-CodeInformationList-RL-ReconfRqstFDD  OPTIONAL,
    -- This IE is group present only if Downlink compressed mode method is set to "SF/2" in the Transmission Gap Pattern Sequence Information IE.
    iE-Extensions        ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstFDD-ExtIEs} }  OPTIONAL,
    ...
}

DL-CodeInformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDLCodes)) OF DL-CodeInformationItem-RL-ReconfRqstFDD

DL-CodeInformationItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dl-scramblingCode          DL-ScramblingCode          OPTIONAL,
    fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber  OPTIONAL,
    transmissionGapPatternSequenceCodeInformation  TransmissionGapPatternSequenceCodeInformation  OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { DL-CodeInformationList-RL-ReconfRqstFDD-ExtIEs} }  OPTIONAL,
    ...
}

DL-CodeInformationList-RL-ReconfRqstFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationItem-RL-ReconfRqstFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****
```

```
RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationRequestTDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}}    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-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          CRITICALITY notify          TYPE UL-CCTrCH-InformationDeleteList-RL-
ReconfRqstTDD          PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD          CRITICALITY notify          TYPE DL-CCTrCH-InformationModifyList-RL-
ReconfRqstTDD          PRESENCE optional } |
    { ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD          CRITICALITY notify          TYPE DL-CCTrCH-InformationDeleteList-RL-
ReconfRqstTDD          PRESENCE optional } |
    { ID id-DCH-ModifyList-RL-ReconfRqstTDD          CRITICALITY reject          TYPE DCH-ModifyList-RL-ReconfRqstTDD
      PRESENCE optional } |
    { ID id-DCH-AddList-RL-ReconfRqstTDD          CRITICALITY reject          TYPE DCH-AddList-RL-ReconfRqstTDD
      PRESENCE optional } |
    { ID id-DCH-DeleteList-RL-ReconfRqstTDD          CRITICALITY reject          TYPE DCH-DeleteList-RL-ReconfRqstTDD
      PRESENCE optional } |
    { ID id-DSCH-Information-ModifyList-RL-ReconfRqstTDD          CRITICALITY reject          TYPE DSCH-Information-ModifyList-RL-ReconfRqstTDD
      PRESENCE optional } |
    { ID id-DSCH-Information-AddList-RL-ReconfRqstTDD          CRITICALITY reject          TYPE DSCH-Information-AddList-RL-ReconfRqstTDD
      PRESENCE optional } |
    { ID id-DSCH-Information-DeleteList-RL-ReconfRqstTDD          CRITICALITY reject          TYPE DSCH-Information-DeleteList-RL-ReconfRqstTDD
      PRESENCE optional } |
    { ID id-USCH-Information-ModifyList-RL-ReconfRqstTDD          CRITICALITY reject          TYPE USCH-Information-ModifyList-RL-ReconfRqstTDD
      PRESENCE optional } |
    { ID id-USCH-Information-AddList-RL-ReconfRqstTDD          CRITICALITY reject          TYPE USCH-Information-AddList-RL-ReconfRqstTDD
      PRESENCE optional } |
    { ID id-USCH-Information-DeleteList-RL-ReconfRqstTDD          CRITICALITY reject          TYPE USCH-Information-DeleteList-RL-ReconfRqstTDD
      PRESENCE optional } |
    { ID id-RL-Information-RL-ReconfRqstTDD          CRITICALITY ignore          TYPE RL-Information-RL-ReconfRqstTDD          PRESENCE
      optional },
    ...
}
```

```
RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-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-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID      CCTrCH-ID,
  tFCS      TFCS      OPTIONAL,
  punctureLimit      PunctureLimit      OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} }
  OPTIONAL,
  ...
}
```

```
UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-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-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
  cCTrCH-ID      CCTrCH-ID,
  iE-Extensions      ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} }
  OPTIONAL,
  ...
}
```

```
UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ DL-CCTrCH-InformationModifyItemIE-
RL-ReconfRqstTDD}}
```

```
DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID      id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD      CRITICALITY      notify      TYPE      DL-CCTrCH-InformationModifyItem-RL-
ReconfRqstTDD      PRESENCE      mandatory},
  ...
}
```

```

DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS              TFCs                OPTIONAL,
    punctureLimit     PunctureLimit      OPTIONAL,
    iE-Extensions     ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs } }
    OPTIONAL,
    ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD}}

DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE DL-CCTrCH-InformationDeleteItem-RL-
    ReconfRqstTDD          PRESENCE    mandatory},
    ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    iE-Extensions     ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs } }
    OPTIONAL,
    ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRqstTDD

DCH-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    ul-FP-Mode        UL-FP-Mode        OPTIONAL,
    toAWS             ToAWS             OPTIONAL,
    toAWE             ToAWE             OPTIONAL,
    dCH-SpecificInformationList  DCH-ModifySpecificInformationList-RL-ReconfRqstTDD,
    iE-Extensions     ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfRqstTDD-ExtIEs } }          OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfRqstTDD

DCH-ModifySpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {

```



```

dCH-ID                DCH-ID,
ul-CCTrCH-ID          CCTrCH-ID                OPTIONAL,
dl-CCTrCH-ID          CCTrCH-ID                OPTIONAL,
ul-TransportFormatSet TransportFormatSet        OPTIONAL,
dl-TransportFormatSet TransportFormatSet        OPTIONAL,
retentionPriority      RetentionPriority         OPTIONAL,
frameHandlingPriority  FrameHandlingPriority     OPTIONAL,
iE-Extensions         ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

DCH-ModifySpecificItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRqstTDD

DCH-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
ul-FP-Mode                    UL-FP-Mode,
toAWS                          ToAWS,
toAWE                          ToAWE,
dCH-SpecificInformationList    DCH-AddSpecificInformationList-RL-ReconfRqstTDD,
iE-Extensions                 ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

DCH-AddItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-AddSpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRqstTDD

DCH-AddSpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {
dCH-ID                DCH-ID,
ul-CCTrCH-ID          CCTrCH-ID,
dl-CCTrCH-ID          CCTrCH-ID,
ul-TransportFormatSet TransportFormatSet,
dl-TransportFormatSet TransportFormatSet,
retentionPriority      RetentionPriority,
frameHandlingPriority  FrameHandlingPriority,
qE-Selector           QE-Selector,
iE-Extensions         ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
...
}

DCH-AddSpecificItem-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 ::= {
    ...
}

DSCH-Information-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfRqstTDD

DSCH-Information-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID                OPTIONAL,
    transportFormatSet     TransportFormatSet        OPTIONAL,
    retentionPriority       RetentionPriority          OPTIONAL,
    frameHandlingPriority   FrameHandlingPriority     OPTIONAL,
    toAWS                  ToAWS                    OPTIONAL,
    toAWE                  ToAWE                    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

DSCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-AddItem-RL-ReconfRqstTDD

DSCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    retentionPriority       RetentionPriority,
    frameHandlingPriority   FrameHandlingPriority     OPTIONAL,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions        ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

DSCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfRqstTDD

DSCH-Information-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,

```

```

    iE-Extensions          ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

DSCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfRqstTDD

USCH-Information-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID                OPTIONAL,
    transportFormatSet     TransportFormatSet        OPTIONAL,
    retentionPriority       RetentionPriority          OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

USCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-AddItem-RL-ReconfRqstTDD

USCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    retentionPriority       RetentionPriority,
    qE-Selector            QE-Selector,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

USCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfRqstTDD

USCH-Information-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs} }    OPTIONAL,
    ...
}

USCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
RL-Information-RL-ReconfRqstTDD ::= SEQUENCE {
    rL-ID                RL-ID,
    maxDL-Power          DL-Power OPTIONAL,
    minDL-Power          DL-Power OPTIONAL,
    timeslotISCPInfoList TimeslotISCPInfoList-RL-ReconfRqstTDD OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

RL-InformationItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TimeslotISCPInfoList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF TimeslotISCPInfoItem-RL-ReconfRqstTDD

TimeslotISCPInfoItem-RL-ReconfRqstTDD ::= SEQUENCE {
    timeSlot            TimeSlot,
    dL-TimeslotISCP     DL-TimeslotISCP,
    iE-Extensions        ProtocolExtensionContainer { {TimeslotISCPInfoItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

TimeslotISCPInfoItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

## 9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfTFCS,
    maxNrOfErrors,
    maxCTFC,
    maxNrOfTFs,
    maxTTI-count,
    maxRateMatching,
    maxCodeNrComp-1,
    maxNrOfCodeGroups,
    maxNrOfTFCIGroups,
    maxNrOfTFCI1Combs,
    maxNrOfTFCI2Combs,
    maxNrOfTFCI2Combs-1,
    maxNrOfSF,
    maxTGPS
FROM NBAP-Constants

    Criticality,
    ProcedureCode,
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM NBAP-CommonDataTypes

    ProtocolExtensionContainer{},
    NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;

-- =====
-- A
-- =====

Acknowledged-PCPCH-access-preambles ::= INTEGER (0..15)
-- According to mapping in [4]

Acknowledged-RA-Tries-Value ::= INTEGER(0..240,...)
-- The number of L1 acknowledged random access tries per every 20 ms period.

```

```

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 {
    tGPSI          TGPSI,
    tGPRC          TGPRC,
    tGCFN          CFN,
    iE-Extensions  ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
    ...
}

Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-TransmissionTiming ::= ENUMERATED {
    v0,
    v1
}

RetentionPriority ::= INTEGER(0..15)

APPreambleSignature ::= INTEGER (0..15)

APSubChannelNumber ::= INTEGER (0..11)

AvailabilityStatus ::= ENUMERATED {
    empty,
    in-test,
    failed,
}

```

```
power-off,  
off-line,  
off-duty,  
dependency,  
degraded,  
not-installed,  
log-full,  
...  
}
```

<b>CHANGE REQUEST</b>			Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>25.433</b>	<b>CR</b>	<b>191r1</b>	Current Version: <b>3.2.0</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: <b>TSG RAN#9</b> <small>list expected approval meeting # here ↑</small>	for approval for information	<input checked="checked" type="checkbox"/> <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG    The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

**Proposed change affects:**    (U)SIM     ME     UTRAN / Radio     Core Network   
(at least one should be marked with an X)

**Source:**    R-WG3    **Date:**    2000-07-03

**Subject:**    Corrections of diversity information

**Work item:**

<b>Category:</b> <small>(only one category shall be marked with an X)</small>	<table border="0" style="width: 100%;"> <tr><td>F</td><td>Correction</td><td style="text-align: center;"><input checked="checked" type="checkbox"/></td></tr> <tr><td>A</td><td>Corresponds to a correction in an earlier release</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>B</td><td>Addition of feature</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>C</td><td>Functional modification of feature</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>D</td><td>Editorial modification</td><td style="text-align: center;"><input type="checkbox"/></td></tr> </table>	F	Correction	<input checked="checked" type="checkbox"/>	A	Corresponds to a correction in an earlier release	<input type="checkbox"/>	B	Addition of feature	<input type="checkbox"/>	C	Functional modification of feature	<input type="checkbox"/>	D	Editorial modification	<input type="checkbox"/>	<b>Release:</b>	<table border="0" style="width: 100%;"> <tr><td>Phase 2</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Release 96</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Release 97</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Release 98</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>Release 99</td><td style="text-align: center;"><input checked="checked" type="checkbox"/></td></tr> <tr><td>Release 00</td><td style="text-align: center;"><input type="checkbox"/></td></tr> </table>	Phase 2	<input type="checkbox"/>	Release 96	<input type="checkbox"/>	Release 97	<input type="checkbox"/>	Release 98	<input type="checkbox"/>	Release 99	<input checked="checked" type="checkbox"/>	Release 00	<input type="checkbox"/>
F	Correction	<input checked="checked" type="checkbox"/>																												
A	Corresponds to a correction in an earlier release	<input type="checkbox"/>																												
B	Addition of feature	<input type="checkbox"/>																												
C	Functional modification of feature	<input type="checkbox"/>																												
D	Editorial modification	<input type="checkbox"/>																												
Phase 2	<input type="checkbox"/>																													
Release 96	<input type="checkbox"/>																													
Release 97	<input type="checkbox"/>																													
Release 98	<input type="checkbox"/>																													
Release 99	<input checked="checked" type="checkbox"/>																													
Release 00	<input type="checkbox"/>																													

**Reason for change:**

The D-field is implicitly handled by the UL DPCCH Slot Format (defines how many bits the FBI field shall have) and the S Field Length (the FBI field consist of the S and the D field only). The D Field length can therefore be deleted (it has changed to only 1 bit in 25.211, which is not reflected in the NBAP specification).

Reconfiguration of diversity mode for radio links is introduced as an alignment with 25.331.

**Clauses affected:**    8.3.2.2, 9.1.36.1, 9.1.42.1, 9.2.2.5, 9.3.3 and 9.3.4.

<b>Other specs affected:</b>	<table border="0" style="width: 100%;"> <tr><td style="width: 40%;">Other 3G core specifications</td><td style="width: 5%; text-align: center;"><input type="checkbox"/></td><td>→ List of CRs:</td></tr> <tr><td>Other GSM core specifications</td><td style="text-align: center;"><input type="checkbox"/></td><td>→ List of CRs:</td></tr> <tr><td>MS test specifications</td><td style="text-align: center;"><input type="checkbox"/></td><td>→ List of CRs:</td></tr> <tr><td>BSS test specifications</td><td style="text-align: center;"><input type="checkbox"/></td><td>→ List of CRs:</td></tr> <tr><td>O&amp;M specifications</td><td style="text-align: center;"><input type="checkbox"/></td><td>→ List of CRs:</td></tr> </table>	Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	MS test specifications	<input type="checkbox"/>	→ List of CRs:	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	O&M specifications	<input type="checkbox"/>	→ List of CRs:	
Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:															
Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:															
MS test specifications	<input type="checkbox"/>	→ List of CRs:															
BSS test specifications	<input type="checkbox"/>	→ List of CRs:															
O&M specifications	<input type="checkbox"/>	→ List of CRs:															

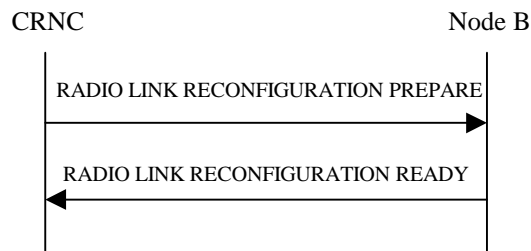
**Other comments:**



<----- double-click here for help and instructions on how to create a CR.



### 8.3.2.2 Successful Operation



**Figure 30: Synchronised Radio Link Reconfiguration procedure, Successful Operation**

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE 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.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with 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.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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.

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to 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 and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Add* IE with multiple *DCH Specific Info* IEs then, 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.

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 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]. 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].

[TDD - For USCHs with the *QE-Selector* IE set to “selected”, the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the QE-Selector is set to “non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [24].]

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the Node B shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Downlink Channelisation Code* IEs, the Node B shall apply the new Downlink Channelisation Code(s) in the new configuration.]

[FDD- If the RADIO LINK RECONFIGURATION PREPARE contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

[FDD - The Node B shall use the *TFCS* IE for the UL 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 - The Node B shall use the *TFCS* IE for the DL 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 RADIO LINK RECONFIGURATION PREPARE message includes on the *Diversity Mode* IE, the Node B shall apply diversity according to the given value.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCH Structure* IE, group the Node B shall set the new Uplink DPCCH Structure to the new configuration.]

If the RADIO LINK RECONFIGURATION PREPARE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target* IE, the Node B shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

If the RADIO LINK RECONFIGURATION PREPARE 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

#### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any of *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 RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be added , the Node B shall include this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be deleted, the Node B shall remove this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be modified, and includes any of *TDD Channelisation Code* IE, *Burst Type* IE, *Midamble shift* 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 DPCH are still applicable.]

#### [TDD – UL/DL CCTrCH Addition]

[TDD -If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be added , the Node B shall include this CCTrCH in the new configuration.]

[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.]

#### SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]

#### DSCH [TDD – and/or USCH] Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes DSCH information for the DSCHs to be added/modified/deleted 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. The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH code mapping* IE then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes. ]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

#### [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 NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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 exist a Prepared Reconfiguration, as defined in chapter 3.1.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub DCH-information-response IE group shall be included only for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, the RL Information Response IE group shall be included only for one of the combined RLs.

#### **Compressed Mode Preparation:**

[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.]

#### **RL Information:**

[TDD - If the *DL Time Slot ISCP IE* is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]

## 9.1.36 RADIO LINK SETUP REQUEST

### 9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.59		–	
>Min UL Channelisation Code length	M		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.21		–	
>puncture limit	M		9.2.1.50	For UL	–	
>TFCS	M		9.2.1.58	for UL	–	
>UL DPCCH Slot Format	M		9.2.2.57		–	
> UL SIR Target	M		UL SIR 9.2.2.58		–	
>Diversity mode	M		9.2.2.9		–	
>D Field Length	C – FB		9.2.2.5		–	
>SSDT cell ID Length	O		9.2.2.45		–	
>S Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>					YES	reject
>TFCS	M		9.2.1.58	For DL	–	
>DL DPCH Slot Format	M		9.2.2.10		–	
>TFCI signalling mode	M		9.2.2.50		–	
>TFCI presence	C- SlotFormat		9.2.1.57		–	
>Multiplexing Position	M		9.2.2.29		–	
>PDSCH RL ID	C-DSCH		RL ID 9.2.1.53		–	
>PDSCH code mapping	C-DSCH		9.2.2.25		–	
<b>&gt;Power Offset Information</b>		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		–	
>Limited Power Increase	M				–	
<b>DCH Information</b>		1 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	

>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For UL	–	
>>Transport Format Set	M		9.2.1.59	For DL	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DSCH Information</b>		0 to <maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For DSCH	–	
>Frame handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>RL Information</b>		1 to <maxnoof RLs>			EACH	notify
>RL ID	M		9.2.1.53		–	
>C-ID	M		9.2.1.9		–	
>First RLS Indicator	M				–	
>Frame Offset	M		9.2.1.31		–	
>Chip Offset	M		9.2.2.2		–	
>Propagation Delay	O		9.2.2.35		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.7		–	
<b>&gt;DL Code Information</b>		1 to <maxnoof-DLCodes>			–	
>>DL Scrambling Code	M		9.2.2.13		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				–	
>Initial DL transmission Power	M		DL Power 9.2.1.21		–	
>Maximum DL power	M		DL Power 9.2.1.21		–	
>Minimum DL power	M		DL Power 9.2.1.21		–	
>SSDT Cell Identity	O		9.2.2.44		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53		–	
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	<del>This IE is present only if Feed Back mode diversity is activated.</del>
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.
DSCH	This IE is present only if the DSCH Information group is present
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDLCodes	Maximum number of DL code information.

## 9.1.42 RADIO LINK RECONFIGURATION PREPARE

### 9.1.42.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling code	O		9.2.2.59		–	
>UL SIR Target	O		UL SIR 9.2.2.58			
>Min UL Channelisation Code Length	O		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.20		–	
>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		–	
>SSDT Cell Identity Length	O		9.2.2.45		–	
>S-Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>		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-Slot Format		9.2.1.57		–	
>Multiplexing Position	O		9.2.2.23		–	
>PDSCH code mapping	O		9.2.2.25			
>PDSCH RL ID	O		RL ID 9.2.1.53			
>Limited Power Increase	O				–	
<b>DCHs to Modify</b>		0..<max noofDC Hs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.20		–	
<b>DCHs to Add</b>		0..<max noofDC Hs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP Mode	M		9.2.1.66		–	



>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;max noofDC Hs&gt;</i>			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DCHs to Delete</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH to modify</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	O		9.2.1.59	For the DL.	–	
>Frame Handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH to add</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For the DL.	–	
>Frame Handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH to Delete</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
<b>RL Information</b>		<i>0..&lt;max noofRLs &gt;</i>			EACH	reject
>RL ID	M		9.2.1.53		–	
<b>&gt;DL Code Information</b>		<i>0..&lt;max noofDL Codes&lt;</i>			–	
>>DL Scrambling Code	O		9.2.2.12		–	
>>FDD DL Channelisation Code Number	O		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				–	
>Maximum DL Power	O		DL Power 9.2.1.21		–	
>Minimum DL Power	O		DL Power 9.2.1.21		–	
>SSDT Indication	O		9.2.2.47		–	
>SSDT Cell Identity	C– SSDTIndON		9.2.2.44		–	
<u>&gt;Transmit Diversity Indicator</u>	<u>C – Diversity mode</u>		<u>9.2.2.53</u>		<u>=</u>	
Transmission Gap Pattern Sequence Information	O				YES	reject

Condition	Explanation
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".
<u>Diversity mode</u>	<u>This IE is present unless Diversity Mode IE in UL DPCH Information group, unless it is equal to "none"</u>

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.

### 9.2.2.5 D-Field Length

Defines the D-Field size of the UL-DPCCH slot.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
D-Field Length			ENUMERATED (1, 2)	

Void.

### 9.3.3 NBAP PDU Content Definitions

```
-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCTrCH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
    Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    ConfigurationGenerationID,
    ConstantValue,
    CriticalityDiagnostics,
```

```
CPCH-Allowed-Total-Rate,  
CPCHScramblingCodeNumber,  
CPCH-UL-DPCH-SlotFormat,  
CRNC-CommunicationContextID,  
DCH-ID,  
DedicatedChannelsCapacityConsumptionLaw,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DLPowerAveragingWindowSize,  
DL-ScramblingCode,  
DL-TimeslotISCP,  
DL-TPC-Pattern01Count,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FrameHandlingPriority,  
FrameOffset,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
Max-Number-of-PCPCHes,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NEOT,  
NFmax,  
N-INSYNC-IND,  
N-OUTSYNC-IND,  
NodeB-CommunicationContextID,
```

NStartMessage,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PCP-Length,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerOffset,  
PowerRaiseLimit,  
PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
ScramblingCodeNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
T-RLFFAILURE,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,

TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TimeSlot,  
TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,  
TransmissionGapPatternSequenceCodeInformation,  
Transmission-Gap-Pattern-Sequence-Information,  
TransportFormatSet,  
TransportLayerAddress,  
TSTD-Indicator,  
UARFCN,  
UL-CapacityCredit,  
UL-DPCCH-SlotFormat,  
UL-SIR,  
UL-FP-Mode,  
UL-InterferenceLevel,  
UL-ScramblingCode,  
USCH-ID

```

-- *****
--
-- 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
      mandatory }|
    { ID id-DCH-InformationList-RL-SetupRqstFDD   CRITICALITY reject          TYPE DCH-InformationList-RL-SetupRqstFDD   PRESENCE
      mandatory }|
    { ID id-DSCH-InformationList-RL-SetupRqstFDD   CRITICALITY reject          TYPE DSCH-InformationList-RL-SetupRqstFDD   PRESENCE
      optional }|
    { 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 ::= {
    ...
}

UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    ul-ScramblingCode          UL-ScramblingCode,
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
    maxNrOfUL-DPDCHs           MaxNrOfUL-DPDCHs          OPTIONAL,
    -- This IE is present only if "Min UL Channelisation Code length" equals to 4 --
    ul-PunctureLimit           PunctureLimit,
    tFCS                        TFCS,
    ul-DPCCH-SlotFormat         UL-DPCCH-SlotFormat,
    ul-SIR-Target               UL-SIR,
    diversityMode               DiversityMode,
    d-FieldLength             D-FieldLength             OPTIONAL
    -- This IE is present only if Feed Back mode diversity is activated --,
    sSDT-CellID-Length          SSDT-CellID-Length     OPTIONAL,
    s-FieldLength               S-FieldLength          OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
}

```



```

}
...
}
UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
tFCS                                TFCS,
dl-DPCH-SlotFormat                  DL-DPCH-SlotFormat,
tFCI-SignallingMode                  TFCI-SignallingMode,
tFCI-Presence                        TFCI-Presence OPTIONAL,
-- this IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16 --
multiplexingPosition                 MultiplexingPosition,
pDSCH-RL-ID                          RL-ID OPTIONAL,
-- This IE is present only if the DSCH Information group is present --
pDSCH-CodeMapping                    PDSCH-CodeMapping OPTIONAL,
-- This IE is present only if the DSCH Information group is present --
powerOffsetInformation                PowerOffsetInformation-RL-SetupRqstFDD,
fdd-TPC-DownlinkStepSize              FDD-TPC-DownlinkStepSize,
limitedPowerIncrease                  LimitedPowerIncrease,
iE-Extensions                         ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
...
}
DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
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 ::= {
...
}
DCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstFDD
DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
payloadCRC-PresenceIndicator          PayloadCRC-PresenceIndicator,
ul-FP-Mode                            UL-FP-Mode,
toAWS                                  ToAWS,
toAWE                                  ToAWE,
dCH-SpecificInformationList           DCH-SpecificInformationList-RL-SetupRqstFDD,
iE-Extensions                         ProtocolExtensionContainer { { DCH-InformationItem-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
...
}

```

```

}

DCH-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-SpecificInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstFDD

DCH-SpecificItem-RL-SetupRqstFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    frameHandlingPriority FrameHandlingPriority,
    qE-Selector           QE-Selector,
    iE-Extensions         ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstFDD

DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    dSCH-TFS               DSCH-TFS,
    frameHandlingPriority  FrameHandlingPriority,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
    ProtocolIE-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,
propagationDelay     PropagationDelay          OPTIONAL,
diversityControlField DiversityControlField    OPTIONAL,
-- This IE is present only if the RL is not the first one in the RL Information
dl-CodeInformationList DL-CodeInformationList-RL-SetupRqstFDD,
initialDL-transmissionPower DL-Power,
maximumDL-power      DL-Power,
minimumDL-power      DL-Power,
sSDT-Cell-Identity   SSdT-Cell-Identity          OPTIONAL,
transmitDiversityIndicator TransmitDiversityIndicator  OPTIONAL,
-- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
iE-Extensions        ProtocolExtensionContainer { { RL-InformationItem-RL-SetupRqstFDD-ExtIEs} }  OPTIONAL,
...
}

RL-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CodeInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCodes)) OF DL-CodeInformationItem-RL-SetupRqstFDD

DL-CodeInformationItem-RL-SetupRqstFDD ::= SEQUENCE {
dl-ScramblingCode          DL-ScramblingCode,
fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
transmissionGapPatternSequenceCodeInformation TransmissionGapPatternSequenceCodeInformation  OPTIONAL,
-- This IE is present only if Downlink compressed mode method is set to "SF/2" in the Transmission Gap Pattern Sequence Information IE.
iE-Extensions              ProtocolExtensionContainer { { DL-CodeInformationItem-RL-SetupRqstFDD-ExtIEs} }  OPTIONAL,
...
}

DL-CodeInformationItem-RL-SetupRqstFDD-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-DCH-ModifyList-RL-ReconfPrepFDD        CRITICALITY reject          TYPE DCH-ModifyList-RL-ReconfPrepFDD        PRESENCE
      optional } |
    { ID id-DCH-AddList-RL-ReconfPrepFDD           CRITICALITY reject          TYPE DCH-AddList-RL-ReconfPrepFDD           PRESENCE
      optional } |
    { ID id-DCH-DeleteList-RL-ReconfPrepFDD        CRITICALITY reject          TYPE DCH-DeleteList-RL-ReconfPrepFDD        PRESENCE
      optional } |
    { ID id-DSCH-ModifyList-RL-ReconfPrepFDD       CRITICALITY reject          TYPE DSCH-ModifyList-RL-ReconfPrepFDD       PRESENCE
      optional } |
    { ID id-DSCH-AddList-RL-ReconfPrepFDD          CRITICALITY reject          TYPE DSCH-AddList-RL-ReconfPrepFDD          PRESENCE
      optional } |
    { ID id-DSCH-DeleteList-RL-ReconfPrepFDD       CRITICALITY reject          TYPE DSCH-DeleteList-RL-ReconfPrepFDD       PRESENCE
      optional } |
    { ID id-RL-InformationList-RL-ReconfPrepFDD    CRITICALITY reject          TYPE RL-InformationList-RL-ReconfPrepFDD    PRESENCE
      optional } |
    { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject          TYPE Transmission-Gap-Pattern-Sequence-Information
      PRESENCE optional },
    ...
}
```

```
RadioLinkReconfigurationPrepareFDD-Extensions 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-DPDCHs          MaxNrOfUL-DPDCHs          OPTIONAL,
    -- This IE is present only if minUL-ChannelisationCodeLength equals to 4
    ul-PunctureLimit          PunctureLimit              OPTIONAL,
    tFCS                      TFCS                      OPTIONAL,
    ul-DPCCH-SlotFormat        UL-DPCCH-SlotFormat        OPTIONAL,
```

```

| diversityMode DiversityMode OPTIONAL,
sSDT-CellIDLength SSDT-CellID-Length OPTIONAL,
s-FieldLength S-FieldLength OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
...
}
UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
tFCS TFCS OPTIONAL,
dl-DPCH-SlotFormat DL-DPCH-SlotFormat OPTIONAL,
tFCI-SignallingMode TFCI-SignallingMode OPTIONAL,
tFCI-Presence TFCI-Presence OPTIONAL,
-- This IE is only present if the DL DPCH Slot Format is equal to any of the value from 12 to 16
multiplexingPosition MultiplexingPosition OPTIONAL,
pDSCH-CodeMapping PDSCH-CodeMapping OPTIONAL,
pDSCH-RL-ID RL-ID OPTIONAL,
limitedPowerIncrease LimitedPowerIncrease OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
...
}
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepFDD
DCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
ul-FP-Mode UL-FP-Mode OPTIONAL,
toAWS ToAWS OPTIONAL,
toAWE ToAWE OPTIONAL,
dCH-SpecificInformationList DCH-ModifySpecificInformationList-RL-ReconfPrepFDD,
iE-Extensions ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
...
}
DCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}
DCH-ModifySpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepFDD
DCH-ModifySpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
dCH-ID DCH-ID,
ul-TransportFormatSet TransportFormatSet OPTIONAL,
dl-TransportFormatSet TransportFormatSet OPTIONAL,
frameHandlingPriority FrameHandlingPriority OPTIONAL,

```

```

    iE-Extensions          ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs } }    OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepFDD

DCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
    ul-FP-Mode                        UL-FP-Mode,
    toAWS                              ToAWS,
    toAWE                              ToAWE,
    dCH-SpecificInformationList       DCH-AddSpecificInformationList-RL-ReconfPrepFDD,
    iE-Extensions                    ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfPrepFDD-ExtIEs } }    OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddSpecificInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepFDD

DCH-AddSpecificItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID                            DCH-ID,
    ul-TransportFormatSet             TransportFormatSet,
    dl-TransportFormatSet             TransportFormatSet,
    frameHandlingPriority              FrameHandlingPriority,
    qE-Selector                       QE-Selector,
    iE-Extensions                    ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs } }    OPTIONAL,
    ...
}

DCH-AddSpecificItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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 ::= {
    ...
}

```

```

DSCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-ModifyItemIE-RL-ReconfPrepFDD }}

DSCH-ModifyItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-DSCH-ModifyItem-RL-ReconfPrepFDD      CRITICALITY reject      TYPE      DSCH-ModifyItem-RL-ReconfPrepFDD      PRESENCE mandatory},
  ...
}

DSCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  dl-TransportFormatSet  TransportFormatSet          OPTIONAL,
  frameHandlingPriority  FrameHandlingPriority          OPTIONAL,
  toAWS              ToAWS          OPTIONAL,
  toAWE              ToAWE          OPTIONAL,
  iE-Extensions      ProtocolExtensionContainer { { DSCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs } }      OPTIONAL,
  ...
}

DSCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-AddList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-AddItemIE-RL-ReconfPrepFDD }}

DSCH-AddItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-DSCH-AddItem-RL-ReconfPrepFDD      CRITICALITY reject      TYPE      DSCH-AddItem-RL-ReconfPrepFDD      PRESENCE mandatory},
  ...
}

DSCH-AddItem-RL-ReconfPrepFDD ::= SEQUENCE {
  dSCH-ID          DSCH-ID,
  dl-TransportFormatSet  TransportFormatSet,
  frameHandlingPriority  FrameHandlingPriority,
  toAWS              ToAWS,
  toAWE              ToAWE,
  iE-Extensions      ProtocolExtensionContainer { { DSCH-AddItem-RL-ReconfPrepFDD-ExtIEs } }      OPTIONAL,
  ...
}

DSCH-AddItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Container {{DSCH-DeleteItemIE-RL-ReconfPrepFDD }}

DSCH-DeleteItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-DSCH-DeleteItem-RL-ReconfPrepFDD      CRITICALITY reject      TYPE      DSCH-DeleteItem-RL-ReconfPrepFDD      PRESENCE mandatory},
  ...
}

DSCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {

```

```

dSCH-ID          DSCH-ID,
iE-Extensions    ProtocolExtensionContainer { { DSCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs } }    OPTIONAL,
...
}

DSCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container { { RL-InformationItemIE-RL-ReconfPrepFDD } }

RL-InformationItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
{ ID      id-RL-InformationItem-RL-ReconfPrepFDD          CRITICALITY    reject          TYPE  RL-InformationItem-RL-ReconfPrepFDD    PRESENCE
mandatory},
...
}

RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
rL-ID          RL-ID,
dl-CodeInformationList  DL-CodeInformationList-RL-ReconfPrepFDD    OPTIONAL,
maxDL-Power      DL-Power          OPTIONAL,
minDL-Power      DL-Power          OPTIONAL,
sSDT-Indication  SSDT-Indication  OPTIONAL,
sSDT-Cell-Identity  SSDT-Cell-Identity    OPTIONAL,
-- The IE may be present if the SSDT Indication is set to SSDT Active in the UE
transmitDiversityIndicator      TransmitDiversityIndicator          OPTIONAL,
-- This IE is present if Diversity Mode IE in UL DPCCH Information group is present, unless it is equal to "none"
iE-Extensions    ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfPrepFDD-ExtIEs } }    OPTIONAL,
...
}

RL-InformationItem-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-CodeInformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDLCodes)) OF DL-CodeInformationItem-RL-ReconfPrepFDD

DL-CodeInformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
dl-scramblingCode      DL-ScramblingCode          OPTIONAL,
fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber    OPTIONAL,
transmissionGapPatternSequenceCodeInformation  TransmissionGapPatternSequenceCodeInformation  OPTIONAL,
-- This IE is present only if Downlink compressed mode method is set to "SF/2" in the Transmission Gap Pattern Sequence Information IE.
iE-Extensions          ProtocolExtensionContainer { { DL-CodeInformationList-RL-ReconfPrepFDD-ExtIEs } }    OPTIONAL,
...
}

DL-CodeInformationList-RL-ReconfPrepFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

```



## 9.3.4 NBAP Information Elements

```

-- =====
-- D
-- =====

DCH-ID ::= INTEGER (0..255)

DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
SEQUENCE {
    dl-Cost      INTEGER (0..65535),
    ul-Cost      INTEGER (0..65535)
}

DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rscp,
    round-trip-time,
    rx-timing-deviation,
    ...
}

DedicatedMeasurementValue ::= CHOICE {
    sIR-Value          SIR-Value,
    sIR-ErrorValue     SIR-Error-Value,
    transmittedCodePowerValue  Transmitted-Code-Power-Value,
    rSCP               RSCP-Value,
    roundTripTime      Round-Trip-Time-Value,
    rxTimingDeviationValue  Rx-Timing-Deviation-Value,
    ...
}

Detected-PCPCH-access-preambles ::= INTEGER (0..240)
-- According to mapping in [4]

D-FieldLength ::= ENUMERATED {
    v1,
    v2,
    ...
}

DeltaSIR ::= INTEGER (0..30)
-- Step 0.1 (Range 0..3).

```

## CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**25.433**

**CR 192r1**

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG-RAN#9**  
list expected approval meeting # here ↑

for approval   
for information

Strategic   
non-strategic  (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <http://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:**  
(at least one should be marked with an X)

(U)SIM  ME  UTRAN / Radio  Core Network

**Source:** R-WG3 **Date:** July 2000

**Subject:** Editorial correction NBAP

**Work item:**

**Category:**

(only one category shall be marked with an X)

F Correction   
A Corresponds to a correction in an earlier release   
B Addition of feature   
C Functional modification of feature   
D Editorial modification

**Release:** Phase 2   
Release 96   
Release 97   
Release 98   
Release 99   
Release 00

**Reason for change:**

There are some editorial mistakes in the current ASN.1. This CR provides the corrections of these mistakes. The details of corrections are described below.

### 9.3.3 PDU Definitions

#### 1. COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD

- "Common Transport Channel ID" IE in the "PICH Parameters" IE is renamed to "Common Physical Channel ID" in order to align with tabular.
- "Common Transport Channel ID" IE in the "AICH Parameters" IE is renamed to "Common Physical Channel ID" in order to align with tabular.
- "Common Transport Channel ID" IE in the "AP-AICH Parameters" IE is renamed to "Common Physical Channel ID" in order to align with tabular.
- The presence for "CSICH Power" IE in the "AP-AICH Parameters" IE is changed to optional in order to align with tabular.
- "Common Transport Channel ID" IE in the "CD/CA-ICH Parameters" IE is renamed to "Common Physical Channel ID" in order to align with tabular.

#### 2. CELL SETUP REQUEST FDD

- "Synchronisation Configuration" IE and "DL TPC Pattern01Count" IE are shuffled in order to align with tabular.

#### 3. CELL SETUP REQUEST TDD

- "Synchronisation Configuration" IE and "DPCH / PUSCH / PRACH Constant" IEs are shuffled in order to align with tabular.

#### 4. RADIO LINK ADDITION REQUEST FDD

- "Compressed Mode Deactivation Flag" IE is moved to the correct position.

- 9.3.4 NBAP Information Elements
- Several IEs in the “Cause Radio Network” are shuffled in order to align with tabular.
  - In the “Dedicated Measurement Type”, “Dedicated Measurement Value”, and “Measurement Threshold” IE, “rx-timing-deviation” and “round-trip-time” are shuffled in order to align with tabular.

**Clauses affected:** 9.3.3, 9.3.4

<b>Other specs affected:</b>	Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	<input type="checkbox"/>
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	<input type="checkbox"/>
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	<input type="checkbox"/>
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	<input type="checkbox"/>
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	<input type="checkbox"/>

**Other comments:**



help.doc

<----- [double-click here for help and instructions on how to create a CR.](#)

### 9.3.3 PDU Definitions

```
-- partly omitted --
-- *****
--
-- 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
      PRESENCE mandatory
      CRITICALITY reject
      TYPE     C-ID
    } |
    { ID      id-ConfigurationGenerationID
      PRESENCE mandatory
      CRITICALITY reject
      TYPE     ConfigurationGenerationID
    } |
    { ID      id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD
      PRESENCE mandatory
      CRITICALITY reject
      TYPE     CommonPhysicalChannelType-CTCH-ReconfRqstFDD
    },
    ...
}

CommonTransportChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE {
```

```

secondary-CCPCH-parameters      Secondary-CCPCHList-CTCH-ReconfRqstFDD,
pRACH-parameters                PRACHList-CTCH-ReconfRqstFDD,
cPCH-parameters                 CPCHList-CTCH-ReconfRqstFDD,
...
}

Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ Secondary-CCPCHListIEs-CTCH-
ReconfRqstFDD }}

Secondary-CCPCHListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD    CRITICALITY reject  TYPE Secondary-
CCPCHListIE-CTCH-ReconfRqstFDD  PRESENCE    optional },
  ...
}

Secondary-CCPCHListIE-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 ::= {
  ...
}

FACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-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-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF FACH-
ParametersItem-CTCH-ReconfRqstFDD

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 ::= {
  ...
}

PCH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-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,
  pCH-Power                        DL-Power          OPTIONAL,
  toAWS                             ToAWS             OPTIONAL,
  toAWE                             ToAWE             OPTIONAL,
  iE-Extensions                    ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-
ReconfRqstFDD-ExtIEs } }    OPTIONAL,
  ...
}

PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PICH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-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 {
  commonPhysicalTransportChannelID CommonPhysicalTransportChannelID,
  pICH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { PICH-ParametersItem-
CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PRACHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ PRACHListIEs-CTCH-ReconfRqstFDD }}

PRACHListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-PRACHListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PRACHListIE-CTCH-ReconfRqstFDD
PRESENCE optional },
  ...
}

PRACHListIE-CTCH-ReconfRqstFDD ::= SEQUENCE {
  pRACH-ParametersList-CTCH-ReconfRqstFDD PRACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
  aICH-ParametersList-CTCH-ReconfRqstFDD AICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { PRACH-CTCH-
ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

PRACH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PRACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-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 ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF PRACH-
ParametersItem-CTCH-ReconfRqstFDD

PRACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  preambleSignatures PreambleSignatures,
  allowedSlotFormatInformation AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD
OPTIONAL,
  rACH-SubChannelNumbers RACH-SubChannelNumbers OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { PRACH-ParametersItem-
CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..
maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  rACH-SlotFormat RACH-SlotFormat,
  iE-Extensions ProtocolExtensionContainer { {
AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-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 {
  commonPhysicalTransportChannelID CommonPhysicalTransportChannelID,
  aICH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { AICH-ParametersItemIE-
CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ CPCHListIE-CTCH-ReconfRqstFDD }}

CPCHListIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-CPCHListItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CPCHListItem-CTCH-ReconfRqstFDD
PRESENCE mandatory },
  ...
}

CPCHListItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  cPCHListItem-CTCH-ReconfRqstFDD CPCHListItem-CTCH-ReconfRqstFDD
OPTIONAL,
  aP-AICH-ParametersList-CTCH-ReconfRqstFDD AP-AICH-ParametersList-CTCH-ReconfRqstFDD
OPTIONAL,
  cDCA-ICH-ParametersList-CTCH-ReconfRqstFDD CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD
OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { CPCHListItem-
CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

CPCHListItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ CPCH-ParametersListIEs-CTCH-
ReconfRqstFDD }}

CPCH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CPCH-
ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory },
  ...
}

CPCH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF CPCH-
ParametersItem-CTCH-ReconfRqstFDD

CPCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  uL-SIR UL-SIR OPTIONAL,
  initialDL-transmissionPower DL-Power OPTIONAL,
  maximumDLPower DL-Power OPTIONAL,
  minimumDLPower DL-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { CPCH-ParametersItem-CTCH-
ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

CPCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```
AP-AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ AP-AICH-ParametersListIEs-CTCH-ReconfRqstFDD }}
```

```
AP-AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {  
  { ID id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory },  
  ...  
}
```

```
AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF AP-AICH-ParametersItem-CTCH-ReconfRqstFDD
```

```
AP-AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {  
  commonPhysicalTransportChannelID CommonPhysicalTransportChannelID,  
  aP-AICH-Power DL-Power,  
  cSICH-Power DL-Power OPTIONAL,  
  iE-Extensions ProtocolExtensionContainer { { AP-AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,  
  ...  
}
```

```
AP-AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}
```

```
CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ CDCA-ICH-ParametersListIEs-CTCH-ReconfRqstFDD }}
```

```
CDCA-ICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {  
  { ID id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory },  
  ...  
}
```

```
CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF AP-AICH-ParametersItem-CTCH-ReconfRqstFDD
```

```
CDCA-ICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {  
  commonPhysicalTransportChannelID CommonPhysicalTransportChannelID,  
  cDCA-ICH-Power DL-Power,  
  iE-Extensions ProtocolExtensionContainer { { CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,  
  ...  
}
```

```
CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}
```

```
-- partly omitted --
```

```
-- *****  
--  
-- 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-DL-TPC-Pattern01Count                    CRITICALITY  reject
  TYPE      DL-TPC-Pattern01Count                      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 ::= {
    ...
}

Synchronisation-Configuration-Cell-SetupRqst ::= SEQUENCE {
    n-INSYNC-IND          N-INSYNC-IND,
    n-OUTSYNC-IND         N-OUTSYNC-IND,
    t-RLFFAILURE          T-RLFFAILURE,
    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 (SIZE (1..maxSCPICHCell)) OF
ProtocolIE-Container{{ SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD }}

SecondaryCPICH-InformationItemIE-Cell-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD      CRITICALITY    reject
      TYPE    SecondaryCPICH-InformationItem-Cell-SetupRqstFDD        PRESENCE        mandatory},
    ...
}

SecondaryCPICH-InformationItem-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    dl-ScramblingCode            DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber  DL-ChannelisationCodeNumber,
    secondaryCPICH-Power          DL-Power,
    transmitDiversityIndicator    TransmitDiversityIndicator,
    iE-Extensions                ProtocolExtensionContainer { { SecondaryCPICH-
InformationItem-Cell-SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}

SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PrimaryCCPCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    bch-information              BCH-Information-Cell-SetupRqstFDD,
    sttd-indicator               STTD-Indicator,
    iE-Extensions                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,
    ...
}

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 ::= {
    ...
}

-- *****
--
-- 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
  Local-Cell-ID PRESENCE CRITICALITY reject TYPE
  { ID id-C-ID
  C-ID PRESENCE CRITICALITY reject TYPE
  { ID id-ConfigurationGenerationID
  ConfigurationGenerationID PRESENCE CRITICALITY reject TYPE
  { ID id-UARFCNforNt
  UARFCN PRESENCE CRITICALITY reject TYPE
  { ID id-CellParameterID
  CellParameterID PRESENCE CRITICALITY reject TYPE
  { ID id-MaximumTransmissionPower
  MaximumTransmissionPower PRESENCE CRITICALITY reject TYPE
  { ID id-TransmissionDiversityApplied
  TransmissionDiversityApplied PRESENCE CRITICALITY reject TYPE
  { ID id-SyncCase
  SyncCase PRESENCE CRITICALITY mandatory }|
  { ID id-Synchronisation-Configuration-Cell-SetupRqst
  Synchronisation-Configuration-Cell-SetupRqst PRESENCE CRITICALITY reject TYPE
  { ID id-DPCHConstant
  ConstantValue PRESENCE CRITICALITY mandatory }|
  { ID id-PUSCHConstant
  ConstantValue PRESENCE CRITICALITY reject TYPE
  { ID id-PRACHConstant
  ConstantValue PRESENCE CRITICALITY reject TYPE
  { ID id-Synchronisation-Configuration-Cell-SetupRqst
  Synchronisation-Configuration-Cell-SetupRqst PRESENCE CRITICALITY reject TYPE
  { ID id-SCH-Information-Cell-SetupRqstTDD
  SCH-Information-Cell-SetupRqstTDD PRESENCE CRITICALITY mandatory }|
  { ID id-PCCPCH-Information-Cell-SetupRqstTDD
  PCCPCH-Information-Cell-SetupRqstTDD PRESENCE CRITICALITY reject TYPE
  { ID id-TimeSlotConfigurationList-Cell-SetupRqstTDD
  TimeSlotConfigurationList-Cell-SetupRqstTDD PRESENCE CRITICALITY mandatory },
  ...
}

CellSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

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-Container {{ SyncCaseIndicatorIE-Cell-
SetupRqstTDD-PSCH }}

SyncCaseIndicatorIE-Cell-SetupRqstTDD-PSCH NBAP-PROTOCOL-IES ::= {
  { 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 ::= ProtocolIE-Container {{ Case1IE-Cell-SetupRqstTDD }}

Case1IE-Cell-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Case1Item-Cell-SetupRqstTDD CRITICALITY reject TYPE Case1Item-Cell-SetupRqstTDD
  PRESENCE mandatory },
  ...
}

```

```

Case1Item-Cell-SetupRqstTDD ::= SEQUENCE {
    timeSlot                TimeSlot,
    iE-Extensions           ProtocolExtensionContainer { { Case1Item-Cell-SetupRqstTDD-
ExtIEs} }                 OPTIONAL,
    ...
}

Case1Item-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Case2-Cell-SetupRqstTDD ::= ProtocolIE-Container {{ Case2IE-Cell-SetupRqstTDD }}

Case2IE-Cell-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Case2Item-Cell-SetupRqstTDD    CRITICALITY reject    TYPE Case2Item-Cell-SetupRqstTDD
    PRESENCE mandatory },
    ...
}

Case2Item-Cell-SetupRqstTDD ::= SEQUENCE {
    sCH-TimeSlot           SCH-TimeSlot,
    iE-Extensions           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,
    blockSTTD-Indicator         BlockSTTD-Indicator,
    iE-Extensions               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-Extensions           ProtocolExtensionContainer { {
TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs} }     OPTIONAL,
    ...
}

TimeSlotConfigurationItem-Cell-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- partly omitted --

-- *****
--
-- 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-RL-AdditionRqstFDD CRITICALITY reject
    TYPE Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD PRESENCE optional } |
  { ID id-RL-InformationList-RL-AdditionRqstFDD CRITICALITY notify          TYPE
    RL-InformationList-RL-AdditionRqstFDD        PRESENCE mandatory },
  ...
}

RadioLinkAdditionRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationList-RL-AdditionRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container
{{ RL-InformationItemIE-RL-AdditionRqstFDD}}

RL-InformationItemIE-RL-AdditionRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-RL-InformationItem-RL-AdditionRqstFDD CRITICALITY notify          TYPE
    RL-InformationItem-RL-AdditionRqstFDD        PRESENCE mandatory },+
  { ID id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD CRITICALITY reject
    TYPE Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD PRESENCE optional },
  ...
}

RL-InformationItem-RL-AdditionRqstFDD ::= SEQUENCE {
  rL-ID                RL-ID,
  c-ID                 C-ID,
  frameOffset          FrameOffset,
  chipOffset           ChipOffset,
  diversityControlField DiversityControlField,
  dl-CodeInformationList DL-CodeInformationList-RL-AdditionRqstFDD,
  initialDL-TransmissionPower DL-Power OPTIONAL,
  maximumDL-Power        DL-Power OPTIONAL,
  minimumDL-Power        DL-Power OPTIONAL,
  sSDT-CellIdentity      SSDT-Cell-Identity OPTIONAL,
  transmitDiversityIndicator TransmitDiversityIndicator OPTIONAL,
  -- This IE is present unless Diversity Mode IE in UL DPCH Information group is "none"
  iE-Extensions         ProtocolExtensionContainer { { RL-InformationItem-
RL-AdditionRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

RL-InformationItem-RL-AdditionRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-CodeInformationList-RL-AdditionRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDLCodes)) OF DL-
CodeInformationItem-RL-AdditionRqstFDD

DL-CodeInformationItem-RL-AdditionRqstFDD ::= SEQUENCE {
  dl-scramblingCode          DL-ScramblingCode,
  fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  transmissionGapPatternSequenceCodeInformation
  TransmissionGapPatternSequenceCodeInformation OPTIONAL,
  iE-Extensions             ProtocolExtensionContainer { { DL-CodeInformationItem-
RL-AdditionRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

DL-CodeInformationItem-RL-AdditionRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```
-- partly omitted --
```

### 9.3.4 NBAP Information Elements

```

-----
--
-- Information Element Definitions
--
-----

```

```
-- partly omitted --
```

```

-- =====
-- C
-- =====

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 {
    transaction-not-allowed,
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    ...
}

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    ul-scramblingcode-already-in-use,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAllocated,
    nodeB-Resources-unavailable,
    insufficient-physical-channel-resources,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    priority-transport-channel-established,
    sIB-Origination-in-Node-B-not-Supported,
    unspecified,
    priority-transport-channel-established,
    no-closed-loop-timing-adjustment-mode-configured,
    bCCH-scheduling-error,
    measurement-temporarily-not-available,
    no-closed-loop-timing-adjustment-mode-configured,
    invalid-CM-settings,
    ...
}

CauseTransport ::= ENUMERATED {
    transport-link-failure,
    transmission-port-not-available,
    transport-resource-unavailable,
    unspecified,
    ...
}

-- partly omitted --

DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rscp,
    rx-timing-deviation,
    round-trip-time,
    rx-timing-deviation,
    ...
}

```

```

}

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,
    rxTimingDeviationValue    Rx-Timing-Deviation-Value,
    ...
}

-- partly omitted --

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,
    ...
}

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 {

```



**CHANGE REQUEST**

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**25.433 CR 193**

Current Version: **3.2.0.**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**  
*list expected approval meeting # here*

for approval   
 for information

strategic   
 non-strategic  (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

**Proposed change affects:**  
 (at least one should be marked with an X)

(U)SIM  ME  UTRAN / Radio  Core Network

**Source:** **R-WG3**

**Date:** **July 2000**

**Subject:** **Minor CPCH correction**

**Work item:**

**Category:**  
 (only one category shall be marked with an X)  
 F Correction   
 A Corresponds to a correction in an earlier release   
 B Addition of feature   
 C Functional modification of feature   
 D Editorial modification

**Release:**  
 Phase 2   
 Release 96   
 Release 97   
 Release 98   
 Release 99   
 Release 00

**Reason for change:**

MaxNrOfCPCHs was noted not specified in current specification.  
 MaxNrOfCPCHs is defined as Maximum number of CPCHs that can be defined in a Cell and is proposed to have value 4.

**Clauses affected:** **9.3.6**

**Other specs affected:**  
 Other 3G core specifications  → List of CRs:  
 Other GSM core specifications  → List of CRs:  
 MS test specifications  → List of CRs:  
 BSS test specifications  → List of CRs:  
 O&M specifications  → List of CRs:

**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.



### 9.3.6 NBAP Extension Definitions

Partially omitted

```
-- *****
--
-- Lists
--
-- *****

-- *****
--
-- Lists
--
-- *****

maxNrOfCodes                INTEGER ::= 10
maxNrOfDLTSs                INTEGER ::= 15
maxNrOfDLCodes              INTEGER ::= 8
maxNrOfErrors                INTEGER ::= 256
maxNrOfTFs                   INTEGER ::= 32
maxNrOfTFCs                  INTEGER ::= 1024
maxNrOfRLs                   INTEGER ::= 16
maxNrOfRLSets                INTEGER ::= maxNrOfRLs
maxNrOfDPCHs                 INTEGER ::= 240
maxNrOfSCCPCHs               INTEGER ::= 8
maxNrOfCPCHs                 INTEGER ::= 10 — temporary value4
maxNrOfPCPCHs                INTEGER ::= 64
maxNrOfDCHs                  INTEGER ::= 128
maxNrOfDSCHs                 INTEGER ::= 32
maxNrOfFACHs                 INTEGER ::= 8
maxNrOfCCTrCHs               INTEGER ::= 16
maxNrOfPDSCHs                INTEGER ::= 256
maxNrOfPUSCHs                INTEGER ::= 256
maxNrOfPDSCHSets             INTEGER ::= 256
maxNrOfPUSCHSets             INTEGER ::= 256
maxNrOfULTSs                 INTEGER ::= 15
maxNrOfUSCHs                 INTEGER ::= 32
maxAPSigNum                  INTEGER ::= 16
maxNrOfSlotFormatsPRACH      INTEGER ::= 8
maxCellInNodeB               INTEGER ::= 256
maxCCPinNodeB                INTEGER ::= 256
maxCPCHCell                  INTEGER ::= 64
maxCTFC                       INTEGER ::= 16777215
maxLocalCellInNodeB          INTEGER ::= maxCellInNodeB
maxNoofLen                   INTEGER ::= 7
maxRACHCell                   INTEGER ::= maxPRACHCell
maxPRACHCell                  INTEGER ::= 16
maxPCPCHCell                  INTEGER ::= 64
maxSCCPCHCell                 INTEGER ::= 32
maxSCPICHCell                 INTEGER ::= 32
maxTTI-count                  INTEGER ::= 4
maxIBSEG                      INTEGER ::= 16
maxIB                          INTEGER ::= 32
maxFACHCell                   INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching               INTEGER ::= 256
maxCodeNrComp-1               INTEGER ::= 256
maxNrOfCodeGroups             INTEGER ::= 256
maxNrOfTFCIGroups             INTEGER ::= 256
maxNrOfTFCI1Combs             INTEGER ::= 512
maxNrOfTFCI2Combs             INTEGER ::= 1024
maxNrOfTFCI2Combs-1           INTEGER ::= 1023
maxNrOfSF                      INTEGER ::= 8
maxTGPS                       INTEGER ::= 6
```

Partially omitted

**3GPP TSG-RAN WG3 Meeting #14  
Helsinki, Finland, 03-07 Jul 2000**

**Document R3-001977**

e.g. for 3GPP use the format TP-99xxx  
or for SMG, use the format P-99-xxx

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
<b>25.433</b>	<b>CR</b>	<b>194r2</b>	Current Version: <b>3.2.0</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: <b>TSG RAN #9</b> <small>list expected approval meeting # here</small>	for approval for information	<input checked="" type="checkbox"/> <input type="checkbox"/>	strategic non-strategic <input type="checkbox"/> <input type="checkbox"/> <small>(for SMG use only)</small>

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** 5/7/2000

**Subject:** Renaming UL interference

**Work item:**

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:**

Rev 2. changes 'downlink' to 'uplink' in 9.2.3.x.

Rev 1. modifies RSSI -> ISCP in TDD, adds comment in ASN.1 and updates on official version.

The meaning of UL interference in RADIO LINK SETUP/ADDITION RESPONSE/FAILURE messages and RSSI measurement is same. And, because RSSI(not UL interference) is defined in 25.215 & in 25.225, this document propose to replace UL Interference Level IE in RADIO LINK SETUP/ADDITION RESPONSE/FAILURE messages with RSSI Measurement. Appropriate modification need in RNSAP also.

**Clauses affected:** 9.1.37.1, 9.1.37.2, 9.1.38.1, 9.1.40.1, 9.1.40.2, 9.1.41.1, 9.2.2.x, 9.2.3.x, 9.3.3, 9.3.4

**Other specs affected:**

Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:
Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:
MS test specifications	<input type="checkbox"/>	→ List of CRs:
BSS test specifications	<input type="checkbox"/>	→ List of CRs:
O&M specifications	<input type="checkbox"/>	→ List of CRs:

**Other comments:**

## 9.1.37 RADIO LINK SETUP RESPONSE

### 9.1.37.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	M		9.2.1.15		YES	ignore
<b>RL Information Response</b>		1 to <maxnoofRLs>			EACH	ignore
>RL ID	M		9.2.1.53		–	
>RL Set ID	M		9.2.2.39			
>UL interference levelRSSI	M		9.2.1.672.x		–	
>Diversity Indication	C-NotFirstRL		9.2.2.8		–	
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	–	
>>Non Combining or First RL					YES	ignore
>>>DCH Information Response		0 to <maxnoofDCHs>		Only one DCH per set of coordinated DCH shall be included	–	
>>>>DCH ID	M		9.2.1.20		–	
>>>>Binding ID	M		9.2.1.4		–	
>>>>Transport Layer Address	M		9.2.1.63		–	
>DSCH Information Response		0 to <Numof DSCH>			GLOBAL	ignore
>>DSCH ID	M		9.2.1.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
>SSDT Support Indicator	M		9.2.2.46		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Condition	Explanation
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCH per UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.

## 9.1.37.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	M		9.2.1.15		YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.53		–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link		
>Time Slot	M		9.2.3.23			
>UL interference level/UL Timeslot ISCP	M		9.2.4.673.x			
<b>&gt;DCH Information Response</b>		1 to <maxnoofDCH>		Only one DCH per set of coordinated DCH shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.20		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;DSCH Information Response</b>		0 .. <MaxnoofDSCHs>			GLOBAL	ignore
>>DSCH ID	M		9.2.1.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;USCH Information Response</b>		0 .. <MaxnoofUSCHs>			GLOBAL	ignore
>>USCH ID	M		9.2.3.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of DCH per UE
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoofUSCHs	Maximum number of USCHs for one UE
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.1.38 RADIO LINK SETUP FAILURE

### 9.1.38.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore
Communication Control Port ID	O		9.2.1.15		YES	ignore
CHOICE <i>cause level</i>						
> <i>General</i>					YES	ignore
>> <i>Cause</i>	M					
> <i>RL specific</i>					YES	ignore
>> <b>Unsuccessful RL Information Response</b>		1 to <maxnoo fRLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>Cause	M		9.2.1.6		–	
>> <b>Successful RL Information Response</b>		0 to <maxnoo fRLs-1>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>RL Set ID	M		9.2.2.39			
>>>UL interference level/RSSI	M		9.2.1.67/2.x		–	
>>>Diversity Indication	C-NotFirstRL		9.2.2.8		–	
>>>CHOICE <i>diversity Indication</i>					–	
>>>> <i>Combining</i>					YES	ignore
>>>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	–	
>>>>> <i>Non Combining or First RL</i>					YES	ignore
>>>>> <b>DCH Information Response</b>		0 to <maxnoo fDCHs>		Only one DCH per set of coordinated DCH shall be included	–	
>>>>>>DCH ID	M		9.2.1.20		–	
>>>>>>Binding ID	M		9.2.1.4		–	
>>>>>>Transport Layer Address	M		9.2.1.63		–	
>>> <b>DSCH Information Response</b>		0 to <Numof DSCH>			GLOBAL	ignore
>>>>>DSCH ID	M		9.2.1.27		–	
>>>>>Binding ID	M		9.2.1.4		–	

>>>>Transport Layer Address	M		9.2.1.63		–	
>>>SSDT Support Indicator	M		9.2.2.46		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Condition	Explanation
Success	This IE is present if at least one of the radio links has been successfully set up.
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of set DCH per UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE

## 9.1.40 RADIO LINK ADDITION RESPONSE

### 9.1.40.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
<b>RL Information Response</b>		1..<maxno ofRL-1>			EACH	ignore
>RL ID	M		9.2.1.53		–	
>RL Set ID	M		9.2.2.9			
>UL-interference levelRSSI	M		9.2.4.672.x		–	
>Diversity Indication	M		9.2.2.8		–	
>CHOICE diversity indication					–	
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.53	Reference RL	–	
>>>Non combining					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxno ofDCHs>			–	
>>>>DCH ID	M		9.2.1.20		–	
>>>>Binding ID	M		9.2.1.4		–	
>>>>Transport Layer Address	M		9.2.1.63		–	
>SSDT support indicator	M		9.2.2.46		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs per UE
MaxnoofRL	Maximum number of RLs for one UE

## 9.1.40.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
<b>RL Information response</b>		1			YES	ignore
>RL ID	M		9.2.1.53		–	
<b>&gt;UL Interference per Time Slot</b>	M	1 .. <maxn oofULts >		Interference Level for each UL time slot within the Radio Link		
>>Time Slot	M		9.2.3.23			
>>UL interference level UL Timeslot ISCP	M		9.2.4.67 3.x		–	
>Diversity Indication	M		9.2.2.8		–	
>CHOICE <i>diversity indication</i>						
> <i>Combining</i>				In TDD it indicates whether the old Transport Bearer shall be reused or not	YES	ignore
>>RL ID	M		9.2.1.53	Reference RL	–	
> <i>Non combining</i>					YES	ignore
<b>&gt;&gt;DCH Information Response</b>		0..<ma xnoofD CHs>			–	
>>>DCH ID	M		9.2.1.20		–	
>>>Binding ID	M		9.2.1.4		–	
>>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;DSCH Information Response</b>		0 .. <Maxn oofDSC Hs			GLOBAL	ignore
>>DSCH ID	M		9.2.1.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;USCH Information Response</b>		0 .. <Maxn oofUSC Hs			GLOBAL	ignore
>>USCH ID	M		9.2.3.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs per UE
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUDCHs</i>	Maximum number of USCHs for one UE
<i>MaxnoofULts</i>	Maximum number of Uplink time slots per Radio Link



## 9.1.41 RADIO LINK ADDITION FAILURE

### 9.1.41.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
CHOICE <i>cause level</i>						
> <i>General</i>					YES	ignore
>> <i>Cause</i>	M					
> <i>RL specific</i>					YES	ignore
>> <b>Unsuccessful RL Information Response</b>		1..<maxnoofRL-1>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>Cause	M		9.2.1.6		–	
>> <b>Successful RL Information Response</b>		1..<maxnoofRL-2>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>RL Set ID	M		9.2.2.39			
>>>UL interference level/RSSI	M		9.2.1.67/2.x		–	
>>>Diversity Indication	M		9.2.2.8		–	
>>>CHOICE <i>diversity indication</i>						
>>>> <i>Combining</i>					YES	ignore
>>>>>RL ID	M		9.2.1.53	Reference RL	–	
>>>>> <i>Non combining</i>					YES	Ignore
>>>>> <b>DCH Information Response</b>		1..<maxnoofDCHs>			–	
>>>>>>DCH ID	M		9.2.1.20		–	
>>>>>>Binding ID	M		9.2.1.4		–	
>>>>>>Transport Layer Address	M		9.2.1.63		–	
>>>SSDT support indicator	M		9.2.2.46		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs per UE
<i>MaxnoofRL</i>	Maximum number of RLs for one UE

### 9.2.1.67 UL interference level

Void

The UL interference level indicates the UL interference at a certain cell[FDD]/time slot[TDD] under CRNC.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>UL interference level</u>			ENUMERATED(128.0dBm..60.0dBm)	Resolution is 0.1 dBm.

### 9.2.2.x RSSI

The RSSI indicates the UL interference at a certain cell under CRNC.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>RSSI</u>			INTEGER(0..621)	According to mapping in [4].

### 9.2.3.x UL Timeslot ISCP

UL Timeslot ISCP is the measured interference in a uplink timeslot at the Node B, see ref. [5].

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>UL Timeslot ISCP</u>			INTEGER (0..81)	According to mapping in [5].

## 9.3.3 NBAP PDU Content Definitions

```
-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTD-Indicator,
    BurstType,
    Cause,
    CCTrCH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
    Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
```

```

CommonMeasurementType,
CommonMeasurementValue,
CommonPhysicalChannelID,
CommonTransportChannelID,
CommunicationControlPortID,
ConfigurationGenerationID,
ConstantValue,
CriticalityDiagnostics,
CPCH-Allowed-Total-Rate,
CPCHScramblingCodeNumber,
CPCH-UL-DPCH-SlotFormat,
CRNC-CommunicationContextID,
DCH-ID,
DedicatedChannelsCapacityConsumptionLaw,
DedicatedMeasurementType,
DedicatedMeasurementValue,
D-FieldLength,
DiversityControlField,
DiversityMode,
DL-DPCH-SlotFormat,
DL-or-Global-CapacityCredit,
DL-Power,
DLPowerAveragingWindowSize,
DL-ScramblingCode,
DL-TimeslotISCP,
DL-TPC-Pattern01Count,
DPCH-ID,
DSCH-ID,
-- to do
DSCH-TFS,
FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,
FirstRLS-Indicator,
FrameHandlingPriority,
FrameOffset,
IB-SG-DATA,
IB-SG-POS,
IB-SG-REP,
IB-Type,
IndicationType,
LimitedPowerIncrease,
Local-Cell-ID,
MaximumDL-PowerCapability,
MaximumTransmissionPower,
Max-Number-of-PCPCHes,
MaxNrOfUL-DPDCHs,
MaxPRACH-MidambleShifts,
MeasurementFilterCoefficient,
MeasurementID,
MidambleShift,
MinSpreadingFactor,
MinUL-ChannelisationCodeLength,
MultiplexingPosition,
NEOT,
NFmax,
N-INSYNC-IND,
N-OUTSYNC-IND,
NodeB-CommunicationContextID,
NStartMessage,
PagingIndicatorLength,
PayloadCRC-PresenceIndicator,
PCCPCH-Power,
PCP-Length,
PDSCH-CodeMapping,
PDSCHSet-ID,
PDSCH-ID,
PICH-Mode,
PowerAdjustmentType,
PowerOffset,
PowerRaiseLimit,
PRACH-Midamble,
PreambleSignatures,
PreambleThreshold,
PrimaryCPICH-Power,
PrimaryScramblingCode,
PropagationDelay,
SCH-TimeSlot,

```

```

PunctureLimit,
PUSCHSet-ID,
PUSCH-ID,
QE-Selector,
RACH-SlotFormat,
RACH-SubChannelNumbers,
RepetitionLength,
RepetitionPeriod,
ReportCharacteristics,
ResourceOperationalState,
RL-Set-ID,
RL-ID,
RSSI-Value,
AdjustmentPeriod,
ScaledAdjustmentRatio,
MaxAdjustmentStep,
ScramblingCodeNumber,
SecondaryCCPCH-SlotFormat,
S-FieldLength,
SFN,
ShutdownTimer,
SIB-Originator,
SSDT-Cell-Identity,
SSDT-CellID-Length,
SSDT-Indication,
STTD-Indicator,
SSDT-SupportIndicator,
SyncCase,
T-Cell,
T-RLFAILURE,
TDD-ChannelisationCode,
TDD-TPC-DownlinkStepSize,
TDD-PhysicalChannelOffset,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
TimeSlot,
TimeSlotDirection,
TimeSlotStatus,
ToAWE,
ToAWS,
TransmissionDiversityApplied,
TransmitDiversityIndicator,

TransmissionGapPatternSequenceCodeInformation,
Transmission-Gap-Pattern-Sequence-Information,
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
UL-DPCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
UL-InterferenceLevel,
UL-ScramblingCode,
UL-TimeslotISCP-Value,
USCH-ID

```

FROM NBAP-IEs

```

PrivateIE-Container{},
ProtocolExtensionContainer{},
ProtocolIE-Container{},
ProtocolIE-ContainerList{},
NBAP-PRIVATE-IES,
NBAP-PROTOCOL-IES,
NBAP-PROTOCOL-EXTENSION

```

FROM NBAP-Containers

```

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

```

-- \*\*\*\*\*

```

--
-- RADIO LINK SETUP RESPONSE FDD
--
-- *****

RadioLinkSetupResponseFDD ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container    {{RadioLinkSetupResponseFDD-IEs}},
    protocolExtensions   ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}
    OPTIONAL,
    ...
}

RadioLinkSetupResponseFDD-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-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore      TYPE
      RL-InformationResponseList-RL-SetupRspFDD  PRESENCE      mandatory  }|
    { ID id-CriticalityDiagnostics              CRITICALITY ignore      TYPE
      CriticalityDiagnostics                       PRESENCE      optional   },
    ...
}

RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container{{ RL-InformationResponseItemIE-RL-SetupRspFDD }}

RL-InformationResponseItemIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-SetupRspFDD          CRITICALITY ignore      TYPE
      RL-InformationResponseItem-RL-SetupRspFDD                PRESENCE      mandatory  },
    ...
}

RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                      RL-ID,
    rL-Set-ID                   RL-Set-ID,
    ul-InterferenceLevel UL-InterferenceLevel,
    rSSI RSSI-Value,
    diversityIndication         DiversityIndication-RL-SetupRspFDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity
    -- indication as described in
    -- the tabular message format in subclause 9.1.
    dSCH-InformationResponseList DSCH-InformationResponseList-RL-SetupRspFDD
    OPTIONAL,
    sSDT-SupportIndicator       SSdT-SupportIndicator,
    iE-Extensions               ProtocolExtensionContainer { { RL-
InformationResponseItem-RL-SetupRspFDD-ExtIEs } }
    OPTIONAL,
    ...
}

RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining                    Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL       NonCombiningOrFirstRL-RL-SetupRspFDD,
    ...
}

Combining-RL-SetupRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupRspFDD }}

CombiningIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-SetupRspFDD          CRITICALITY ignore      TYPE CombiningItem-RL-SetupRspFDD
      PRESENCE mandatory },
    ...
}

CombiningItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID                      RL-ID,
    iE-Extensions               ProtocolExtensionContainer { { Combining-RL-
SetupRspFDD-ExtIEs } }
    OPTIONAL,

```

```

}
...
Combining-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
...
NonCombiningOrFirstRL-RL-SetupRspFDD ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIE-RL-
SetupRspFDD }}

NonCombiningOrFirstRLIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningOrFirstRLItem-RL-SetupRspFDD CRITICALITY ignore TYPE
NonCombiningOrFirstRLItem-RL-SetupRspFDD PRESENCE mandatory },
  ...
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD ::= SEQUENCE {
  dCH-InformationResponseList DCH-InformationResponseList-RL-SetupRspFDD
OPTIONAL ,
  iE-Extensions ProtocolExtensionContainer { {
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}

NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
...

DCH-InformationResponseList-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-SetupRspFDD

DCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { { DCH-
InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}

DCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
...

DSCH-InformationResponseList-RL-SetupRspFDD ::= ProtocolIE-Container {{ DSCH-
InformationResponseListIEs-RL-SetupRspFDD }}

DSCH-InformationResponseListIEs-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponseListIE-RL-SetupRspFDD CRITICALITY ignore TYPE DSCH-
InformationResponseListIE-RL-SetupRspFDD PRESENCE mandatory },
  ...
}

DSCH-InformationResponseListIE-RL-SetupRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-
InformationResponseItem-RL-SetupRspFDD

DSCH-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
  dSCH-ID DSCH-ID,
  bindingID BindingID,
  transportLayerAddress TransportLayerAddress,
  iE-Extensions ProtocolExtensionContainer { { DSCH-
InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
  ...
}

DSCH-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
...

-- *****
--
-- 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      mandatory  } |
  { ID      id-CriticalityDiagnostics              CRITICALITY  ignore      TYPE
  CriticalityDiagnostics                           PRESENCE      optional   },
  ...
}

RadioLinkSetupResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
  rL-ID                      RL-ID,
  uL-InterferenceList-RL-SetupRspTDD
  UL-InterferenceList-RL-SetupRspTDD,
  dCH-InformationResponseList
  DCH-InformationResponseList-RL-SetupRspTDD,
  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 ::= {
  ...
}

UL-InterferenceList-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-InterferenceItem-RL-
SetupRspTDD

UL-InterferenceItem-RL-SetupRspTDD ::= SEQUENCE {
  timeSlot                    TimeSlot,
  ul-InterferenceLevel    UL-InterferenceLevel,
  iSCP                    UL-TimeslotISCP-Value,
  iE-Extensions              ProtocolExtensionContainer { { UL-InterferenceItem-RL-
  SetupRspTDD-ExtIEs } }
  OPTIONAL,
  ...
}

UL-InterferenceItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Container{{ DCH-
InformationResponseListIEs-RL-SetupRspTDD }}

DCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DCH-InformationResponseListIE-RL-SetupRspTDD CRITICALITY  ignore      TYPE  DCH-
  InformationResponseListIE-RL-SetupRspTDD PRESENCE mandatory},
  ...
}

DCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-SetupRspTDD

DCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
  dCH-ID                      DCH-ID,
  bindingID                   BindingID,
  transportLayerAddress       TransportLayerAddress,
  iE-Extensions              ProtocolExtensionContainer { { DCH-
  InformationResponseItem-RL-SetupRspTDD-ExtIEs } }
  OPTIONAL,
  ...
}

DCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
DSCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Container {{ DSCH-
InformationResponseListIEs-RL-SetupRspTDD }}

DSCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponseListIE-RL-SetupRspTDD  CRITICALITY ignore  TYPE DSCH-
InformationResponseListIE-RL-SetupRspTDD  PRESENCE mandatory },
  ...
}

DSCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-
InformationResponseItem-RL-SetupRspTDD

DSCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
  dSCH-ID                DSCH-ID,
  bindingID              BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions         ProtocolExtensionContainer { { DSCH-
InformationResponseItem-RL-SetupRspTDD-ExtIEs } }  OPTIONAL,
  ...
}

DSCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

USCH-InformationResponseList-RL-SetupRspTDD ::= ProtocolIE-Container {{ USCH-
InformationResponseListIEs-RL-SetupRspTDD }}

USCH-InformationResponseListIEs-RL-SetupRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-InformationResponseListIE-RL-SetupRspTDD  CRITICALITY ignore  TYPE USCH-
InformationResponseListIE-RL-SetupRspTDD  PRESENCE mandatory },
  ...
}

USCH-InformationResponseListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-
InformationResponseItem-RL-SetupRspTDD

USCH-InformationResponseItem-RL-SetupRspTDD ::= SEQUENCE {
  uSCH-ID                USCH-ID,
  bindingID              BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions         ProtocolExtensionContainer { { USCH-
InformationResponseItem-RL-SetupRspTDD-ExtIEs } }  OPTIONAL,
  ...
}

USCH-InformationResponseItem-RL-SetupRspTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- RADIO LINK SETUP FAILURE FDD
--
-- *****

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
  mandatory }|
  { 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
      TYPE    CriticalityDiagnostics
    },
    ...
}

RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CauseLevel-RL-SetupFailureFDD ::= CHOICE {
    generalCause      GeneralCauseList-RL-SetupFailureFDD,
    rLSpecificCause   RLSpecificCauseList-RL-SetupFailureFDD,
    ...
}

GeneralCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-SetupFailureFDD }}

GeneralCauseIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-GeneralCauseItem-RL-SetupFailureFDD
      TYPE    GeneralCauseItem-RL-SetupFailureFDD
    },
    ...
}

GeneralCauseItem-RL-SetupFailureFDD ::= SEQUENCE {
    cause          Cause,
    iE-Extensions ProtocolExtensionContainer { { GeneralCauseItem-RL-
SetupFailureFDD-ExtIEs} }
    OPTIONAL,
    ...
}

GeneralCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RLSpecificCauseList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-
SetupFailureFDD }}

RLSpecificCauseIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-RLSpecificCauseItem-RL-SetupFailureFDD
      TYPE    RLSpecificCauseItem-RL-SetupFailureFDD
    },
    ...
}

RLSpecificCauseItem-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 ::= {
    ...
}

Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
ProtocolIE-Container {{ Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD }}

Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID      id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD
      TYPE    Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD
    },
    ...
}

Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    cause          Cause,
    iE-Extensions ProtocolExtensionContainer { { Unsuccessful-RL-
InformationRespItem-RL-SetupFailureFDD-ExtIEs} }
    OPTIONAL,
    ...
}

Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfRLs)) OF
ProtocolIE-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,
  ul-InterferenceLevel            UL-InterferenceLevel,
  rSSI                            RSSI-Value,
  diversityIndication                 DiversityIndication-RL-SetupFailureFDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity
  indication as described in
  -- the tabular message format in subclause 9.1.
  dSCH-InformationResponseList        DSCH-InformationRespList-RL-SetupFailureFDD
  OPTIONAL,
  sSDT-SupportIndicator               SSDT-SupportIndicator,
  iE-Extensions                       ProtocolExtensionContainer { { Successful-RL-
InformationRespItem-RL-SetupFailureFDD-ExtIEs } }  OPTIONAL,
  ...
}

Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DiversityIndication-RL-SetupFailureFDD ::= CHOICE {
  combining                           Combining-RL-SetupFailureFDD,
  nonCombiningOrFirstRL               NonCombiningOrFirstRL-RL-SetupFailureFDD,
  ...
}

Combining-RL-SetupFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-SetupFailureFDD }}

CombiningIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-SetupFailureFDD  CRITICALITY ignore  TYPE CombiningItem-RL-
SetupFailureFDD  PRESENCE mandatory },
  ...
}

CombiningItem-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 ::= ProtocolIE-Container {{ NonCombiningOrFirstRLIE-RL-
SetupFailureFDD }}

NonCombiningOrFirstRLIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD  CRITICALITY ignore  TYPE
NonCombiningOrFirstRLItem-RL-SetupFailureFDD  PRESENCE mandatory },
  ...
}

NonCombiningOrFirstRLItem-RL-SetupFailureFDD ::= SEQUENCE {
  dCH-InformationResponseList          DCH-InformationRespList-RL-SetupFailureFDD
  OPTIONAL,
  iE-Extensions                       ProtocolExtensionContainer { {
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } }  OPTIONAL,
  ...
}

NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

DCH-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfDCHs)) OF DCH-
InformationRespItem-RL-SetupFailureFDD

DCH-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions         ProtocolExtensionContainer { { DCH-
InformationRespItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

DCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationRespList-RL-SetupFailureFDD ::= ProtocolIE-Container {{ DSCH-InformationRespListIEs-
RL-SetupFailureFDD }}

DSCH-InformationRespListIEs-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationRespListIE-RL-SetupFailureFDD CRITICALITY ignore TYPE DSCH-
InformationRespListIE-RL-SetupFailureFDD PRESENCE mandatory },
    ...
}

DSCH-InformationRespListIE-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-
InformationRespItem-RL-SetupFailureFDD

DSCH-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    bindingID             BindingID,
    transportLayerAddress TransportLayerAddress,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-
InformationRespItem-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

-- *****
--
-- RADIO LINK ADDITION RESPONSE FDD
--
-- *****

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 }|
    { ID id-RL-InformationResponseList-RL-AdditionRspFDD CRITICALITY ignore
TYPE RL-InformationResponseList-RL-AdditionRspFDD PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics CRITICALITY ignore
TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

RadioLinkAdditionResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```
RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-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,
  ul-InterferenceLevel UL-InterferenceLevel,
  rSSI RSSI-Value,
  diversityIndication DiversityIndication-RL-AdditionRspFDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity
  indication as described in
  -- the tabular message format in subclause 9.1.
  sSDT-SupportIndicator SSDT-SupportIndicator,
  iE-Extensions ProtocolExtensionContainer { { RL-
  InformationResponseItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
  combining Combining-RL-AdditionRspFDD,
  non-combining Non-Combining-RL-AdditionRspFDD,
  ...
}
```

```
Combining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionRspFDD }}
```

```
CombiningIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-AdditionRspFDD CRITICALITY ignore TYPE CombiningItem-RL-
  AdditionRspFDD PRESENCE mandatory },
  ...
}
```

```
CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
  rL-ID RL-ID,
  iE-Extensions ProtocolExtensionContainer { { CombiningItem-RL-
  AdditionRspFDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
Non-Combining-RL-AdditionRspFDD ::= ProtocolIE-Container {{ Non-CombiningIE-RL-AdditionRspFDD }}
```

```
Non-CombiningIE-RL-AdditionRspFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Non-CombiningItem-RL-AdditionRspFDD CRITICALITY ignore TYPE Non-CombiningItem-RL-
  AdditionRspFDD PRESENCE mandatory },
  ...
}
```

```
Non-CombiningItem-RL-AdditionRspFDD ::= SEQUENCE {
  dCH-InformationResponseList DCH-InformationResponseList-RL-AdditionRspFDD,
  iE-Extensions ProtocolExtensionContainer { { Non-
  CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
Non-CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
DCH-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem-RL-AdditionRspFDD
```

```
DCH-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
  dCH-ID DCH-ID,
  bindingID BindingID,
}
```

```

        transportLayerAddress      TransportLayerAddress,
        iE-Extensions              ProtocolExtensionContainer { { DCH-
InformationResponseItem-RL-AdditionRspFDD-ExtIEs} }    OPTIONAL,
        ...
    }

DCH-InformationResponseItem-RL-AdditionRspFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- RADIO LINK ADDITION RESPONSE TDD
--
-- *****

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 mandatory }},
    { ID id-CriticalityDiagnostics              CRITICALITY ignore          TYPE
CriticalityDiagnostics                PRESENCE optional }},
    ...
}

RadioLinkAdditionResponseTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID          RL-ID,
    uL-InterferenceList-RL-AdditionRspTDD      UL-InterferenceList-RL-AdditionRspTDD,
    diversityIndication      DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity
indication as described in
    -- the tabular message format in subclause 9.1.
    dSCH-InfomationResponseList      DSCH-InformationResponseList-RL-AdditionRspTDD
        OPTIONAL,
    uSCH-InfomationResponseList      USCH-InformationResponseList-RL-AdditionRspTDD
        OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { RL-
InformationResponse-RL-AdditionRspTDD-ExtIEs} }    OPTIONAL,
    ...
}

RL-InformationResponse-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-InterferenceList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1.. maxNrOfULTSs)) OF UL-InterferenceItem-
RL-AdditionRspTDD

UL-InterferenceItem-RL-AdditionRspTDD ::= SEQUENCE {
    timeSlot          TimeSlot,
    ul-InterferenceLevel UL-InterferenceLevel,
    iSCP UL-TimeslotISCP-Value,
    iE-Extensions    ProtocolExtensionContainer { { UL-InterferenceItem-RL-
AdditionRspTDD-ExtIEs} }    OPTIONAL,
    ...
}

UL-InterferenceItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
    combining          Combining-RL-AdditionRspTDD,
    non-Combining     Non-Combining-RL-AdditionRspTDD,
    ...
}

```

```

Combining-RL-AdditionRspTDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionRspTDD }}

CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-CombiningItem-RL-AdditionRspTDD  CRITICALITY ignore    TYPE CombiningItem-RL-
AdditionRspTDD      PRESENCE mandatory },
  ...
}

CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
  rL-ID                               RL-ID,
  iE-Extensions                       ProtocolExtensionContainer { { CombiningItem-RL-
AdditionRspTDD-ExtIEs} }              OPTIONAL,
  ...
}

CombiningItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Non-Combining-RL-AdditionRspTDD ::= ProtocolIE-Container {{ Non-CombiningIE-RL-AdditionRspTDD }}

Non-CombiningIE-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Non-CombiningItem-RL-AdditionRspTDD  CRITICALITY ignore    TYPE Non-CombiningItem-RL-
AdditionRspTDD      PRESENCE mandatory },
  ...
}

Non-CombiningItem-RL-AdditionRspTDD ::= SEQUENCE {
  dCH-InformationResponseList         DCH-InformationResponseList-RL-AdditionRspTDD
OPTIONAL,
  iE-Extensions                       ProtocolExtensionContainer { { Non-CombiningItem-RL-
AdditionRspTDD-ExtIEs} }              OPTIONAL,
  ...
}

Non-CombiningItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DCH-InformationResponseList-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
InformationResponseItem-RL-AdditionRspTDD

DCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
  dCH-ID                               DCH-ID,
  bindingID                             BindingID,
  transportLayerAddress                 TransportLayerAddress,
  iE-Extensions                       ProtocolExtensionContainer { { DCH-
InformationResponseItem-RL-AdditionRspTDD-ExtIEs} }      OPTIONAL,
  ...
}

DCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DSCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Container {{ DSCH-
InformationResponseListIEs-RL-AdditionRspTDD }}

DSCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-DSCH-InformationResponseListIE-RL-AdditionRspTDD  CRITICALITY ignore    TYPE DSCH-
InformationResponseListIE-RL-AdditionRspTDD      PRESENCE mandatory },
  ...
}

DSCH-InformationResponseListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-
InformationResponseItem-RL-AdditionRspTDD

DSCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
  dSCH-ID                               DSCH-ID,
  bindingID                             BindingID,
  transportLayerAddress                 TransportLayerAddress,
  iE-Extensions                       ProtocolExtensionContainer { { DSCH-InformationResponseItem-
RL-AdditionRspTDD-ExtIEs} }              OPTIONAL,
  ...
}

DSCH-InformationResponseItem-RL-AdditionRspTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
USCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Container {{ USCH-
InformationResponseListIEs-RL-AdditionRspTDD }}

USCH-InformationResponseListIEs-RL-AdditionRspTDD NBAP-PROTOCOL-IES ::= {
  { ID id-USCH-InformationResponseListIE-RL-AdditionRspTDD  CRITICALITY ignore  TYPE USCH-
InformationResponseListIE-RL-AdditionRspTDD  PRESENCE mandatory },
  ...
}

USCH-InformationResponseListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-
InformationResponseItem-RL-AdditionRspTDD

USCH-InformationResponseItem-RL-AdditionRspTDD ::= SEQUENCE {
  uSCH-ID                USCH-ID,
  bindingID              BindingID,
  transportLayerAddress  TransportLayerAddress,
  iE-Extensions          ProtocolExtensionContainer { { USCH-InformationResponseItem-
RL-AdditionRspTDD-ExtIEs} }  OPTIONAL,
  ...
}

USCH-InformationResponseItem-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 ::= {
  ...
}

CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
  generalCause          GeneralCauseList-RL-AdditionFailureFDD,
  rLSpecificCause      RLSpecificCauseList-RL-AdditionFailureFDD,
  ...
}

GeneralCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ GeneralCauseIE-RL-
AdditionFailureFDD }}

GeneralCauseIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID id-GeneralCauseItem-RL-AdditionFailureFDD  CRITICALITY ignore
TYPE GeneralCauseItem-RL-AdditionFailureFDD  PRESENCE mandatory },
  ...
}

GeneralCauseItem-RL-AdditionFailureFDD ::= SEQUENCE {
  cause                Cause,
  iE-Extensions          ProtocolExtensionContainer { { GeneralCauseItem-RL-
AdditionFailureFDD-ExtIEs} }  OPTIONAL,
  ...
}

```

```

GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RLSpecificCauseList-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ RLSpecificCauseIE-RL-
AdditionFailureFDD }}

RLSpecificCauseIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-RLSpecificCauseItem-RL-AdditionFailureFDD          CRITICALITY
  ignore
    TYPE      RLSpecificCauseItem-RL-AdditionFailureFDD          PRESENCE
  mandatory},
  ...
}

RLSpecificCauseItem-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-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
ProtocolIE-Container {{ Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD }}

Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
  { ID      id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD  CRITICALITY
  ignore   TYPE      Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD  PRESENCE
  mandatory},
  ...
}

Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
  rL-ID              RL-ID,
  cause              Cause,
  iE-Extensions     ProtocolExtensionContainer { { Unsuccessful-RL-
InformationRespItem-RL-AdditionFailureFDD-ExtIEs } }          OPTIONAL,
  ...
}

Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Successful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF
ProtocolIE-Container {{ Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD }}

Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
  { 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,
  ul-InterferenceLevel  UL-InterferenceLevel,
  rSSI                RSSI-Value,
  diversityIndication DiversityIndication-RL-AdditionFailureFDD,
  -- This IE represents both the Diversity Indication IE and the choice based on the diversity
  indication as described in
  -- the tabular message format in subclause 9.1.
  sSDT-SupportIndicator  SSdT-SupportIndicator,
  iE-Extensions         ProtocolExtensionContainer { { Successful-RL-
InformationRespItem-RL-AdditionFailureFDD-ExtIEs } }          OPTIONAL,
  ...
}

Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```



```

DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
    combining                Combining-RL-AdditionFailureFDD,
    non-Combining            Non-Combining-RL-AdditionFailureFDD,
    ...
}

Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ CombiningIE-RL-AdditionFailureFDD }}

CombiningIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CombiningItem-RL-AdditionFailureFDD    CRITICALITY ignore    TYPE CombiningItem-RL-
    AdditionFailureFDD        PRESENCE mandatory },
    ...
}

CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID                                RL-ID,
    iE-Extensions                        ProtocolExtensionContainer { { CombiningItem-RL-
    AdditionFailureFDD-ExtIEs} }        OPTIONAL,
    ...
}

CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Non-Combining-RL-AdditionFailureFDD ::= ProtocolIE-Container {{ Non-CombiningIE-RL-
    AdditionFailureFDD }}

Non-CombiningIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Non-CombiningItem-RL-AdditionFailureFDD    CRITICALITY ignore    TYPE Non-CombiningItem-
    RL-AdditionFailureFDD        PRESENCE mandatory },
    ...
}

Non-CombiningItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponseList          DCH-InformationResponseList-RL-
    AdditionFailureFDD,
    iE-Extensions                        ProtocolExtensionContainer { { Non-
    CombiningItem-RL-AdditionFailureFDD-ExtIEs} }        OPTIONAL,
    ...
}

Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-
    InformationResponseItem-RL-AdditionFailureFDD

DCH-InformationResponseItem-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-ID                                DCH-ID,
    bindingID                              BindingID,
    transportLayerAddress                  TransportLayerAddress,
    iE-Extensions                        ProtocolExtensionContainer { { DCH-
    InformationResponseList-RL-AdditionFailureFDD-ExtIEs} }        OPTIONAL,
    ...
}

DCH-InformationResponseList-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

```

### 9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--

```

-----

.  
.
.<Parts of the ASN.1 module is omitted>
.  
.

-- =====
-- U
-- =====

UARFCN ::= INTEGER (0..16383, ...)
-- corresponds to 1885.2MHz .. 2024.8MHz

UL-CapacityCredit ::= INTEGER (0..65535)

UL-DL-mode ::= ENUMERATED {
ul-only,
dl-only,
both-ul-and-dl
}

Uplink-Compressed-Mode-Method ::= ENUMERATED {
sFdiv2,
higher-layer-scheduling
}

UL-DPCCH-SlotFormat ::= INTEGER (0..5)

UL-SIR ::= INTEGER (-82..173)
-- According to mapping in [16]

UL-FP-Mode ::= ENUMERATED {
normal,
silent,
...
}

~~UL-InterferenceLevel ::= INTEGER (-1280.. 600)
UL-InterferenceLevel = InterferenceLevel \* 10
Unit dBm, Range -128dBm .. 60dBm, Step 0.1dBm~~

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-TimeslotISCP-Value ::= INTEGER (0..81)
-- According to mapping in [5]~~

USCH-ID ::= INTEGER (0..255)

-- =====
-- V
-- =====
-- =====

```
-- W
-- =====
--
-- =====
-- X
-- =====
--
-- =====
-- Y
-- =====
--
-- =====
-- Z
-- =====
```

END

## CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**25.433 CR 195r1**

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN#9**

list expected approval meeting # here

↑

for approval  
for information

<b>X</b>

strategic  
non-strategic


(for SMG  
use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:**

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

**Source:**

R-WG3

**Date:**

2000-07-06

**Subject:**

Compressed Mode

**Work item:**

**Category:**

(only one category shall be marked with an X)

F Correction

A Corresponds to a correction in an earlier release

B Addition of feature

C Functional modification of feature

D Editorial modification

<b>X</b>

**Release:**

Phase 2

Release 96

Release 97

Release 98

Release 99

Release 00

<b>X</b>

**Reason for change:**

This CR corrects following errors concerning CM functionality:

1. Procedure text & Message description

8.3.14.2 Term Node B shall be used instead of DRNS.

9.1.60 COMPRESSED NODE COMMAND tabular has been aligned with ASN.1, the CFN IE has been deleted

2. IE Definitions

Following IEs has been deleted since they are now either deleted or introduced in Transmission GAP Pattern Sequence Information IE

9.2.1.8 CFN Offset

9.2.2.4 Compressed Mode Method

9.2.2.11 DL Frame Type

9.2.2.17 Gap Period

9.2.2.18 Gap Position Mode

9.2.2.28 Power Control Mode

9.2.2.30 Power Resume Mode

9.2.2.41 Scrambling Code Change

9.2.2.51 TGD

9.2.2.52 TGL

9.2.2.54 UL/DL Compressed Mode Selection

9.2.2.55 UL Delta SIR

9.2.2.56 UL Delta SIR After

3. Corrections in Transmission GAP Pattern Sequence Information IE

Schematic description for DL Frame Type added.  
Parameters RPM and ITPPRM deleted  
Schematic description for DeltaSIR1, DeltaSIRafter1, DeltaSIR2, DeltaSIRafter2 corrected

**Clauses affected:** 8.3.14.2, 9.2.1.8, 9.2.2.4, 9.2.2.11, 9.2.2.17, 9.2.2.18, 9.2.2.28, 9.2.2.30, 9.2.2.41, 9.2.2.51, 9.2.2.52, 9.2.2.53A, 9.2.2.54, 9.2.2.55, 9.2.2.56, 9.3.4

<b>Other specs affected:</b>	Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	

**Other comments:**

## 8.3.14 Compressed Mode Command [FDD]

### 8.3.14.1 General

The Compressed Mode Command procedure is used to activate the compressed mode in the Node B for one UE-UTRAN connection.

The Compressed Mode Command procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.14.2 Successful Operation



**Figure 47: Compressed Mode Command procedure, Successful Operation**

The Node B shall deactivate all the ongoing Transmission Gap Pattern Sequences at the CM Configuration Change CFN requested by CRNC when receiving COMPRESSED MODE COMMAND message from the CRNC. From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE group repetitions shall be started when the indicated TGCFN elapses. The CM Configuration Change CFN in the *Active Pattern Sequence Information* IE and *TGCFN* for each sequence refers to the next coming CFN with that value.

If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the Node B DRNS shall behave as specified in ref. [25].

## 9.1.60 COMPRESSED MODE COMMAND [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Node B communication context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	M		9.2.1.62		–	
<del>CFN</del>	<del>M</del>		<del>9.2.1.7</del>		<del>YES</del>	<del>ignore</del>
Active Pattern Sequence Information	M				YES	ignore

## 9.2.1.8 CFN Offset

Activation time for the compressed mode pattern.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CFN Offset			Integer (0..255)	Number of frames between CFN and the CM pattern activation.

Void.



## 9.2.2 FDD specific parameters

### 9.2.2.A Active Pattern Sequence Information

Defines the parameters for the downlink compressed mode gap pattern sequence activation. For details see [18].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CM Configuration Change CFN	M		CFN	Defines when the old Active pattern sequences, if active, shall be terminated. From this moment on, the new sequences are activated at the given TGCFN .
<b>Transmission Gap Pattern Sequence Status</b>		0 to <MaxTGPS>		
>TGPSI	M		Integer(1..<MaxTGPS>)	If the group is not present, none of the pattern sequences are activated.
>TGPRC	M		Integer (0..63)	The number of transmission gap patterns within the Transmission Gap Pattern Sequence.  0=Infinity
>TGCFN	M		CFN	Connection Frame Number of the first frame of the first pattern within the Transmission Gap Pattern Sequence.

Range bound	Explanation
MaxTGPS	Maximum number of active pattern sequences. Value 6.

### 9.2.2.B Adjustment Period

*Adjustment Period* IE defines the period to be used for power balancing.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Adjustment Period			INTEGER (1 .. 300)	Frames

### 9.2.2.C Adjustment Ratio

*Adjustment Ratio* IE (*Radj*) defines the convergence rate used for the associated Adjustment Period.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Adjustment Ratio			INTEGER (0 .. 100)	The Adjustment Ratio is given with a granularity of 0.01  0 -> 0.00 1 -> 0.01 ... 100 -> 1.00

## 9.2.2.1 AICH Transmission Timing

IE/Group Name	Presence	Range	IE type and reference	Semantics description
AICH Transmission Timing			ENUMERATED (0, 1)	See parameter AICH_Transmission_Timing in ref. [7].

## 9.2.2.1A AP Preamble Signature

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
AP Preamble Signature			INTEGER (0..15)	Described in [9]

## 9.2.2.1B AP Sub Channel Number

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
AP Sub Channel Number			INTEGER (0..11)	Described in [10]

## 9.2.2.1C CD Sub Channel Numbers

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
CD Sub Channel Numbers			BIT STRING (12)	Bit 0=Sub Channel Number 0 Bit 1=Sub Channel Number 1 ... Bit 11=Sub Channel Number 11 [10]

## 9.2.2.1D Channel Assignment Indication

The Channel Assignment Indication indicates whether CA is active or inactive. When CA is active, CPCH is in Versatile Channel Assignment Method (VCAM) mode and when CA is inactive, CPCH is in UE Channel Selection Method (UCSM) mode. In VCAM mode (CA active), CA message in CD/CA-ICH shall be sent.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Channel Assignment Indication			ENUMERATED (CA Active, CA Inactive)	

## 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 for the DL DPCH relative to the Primary CPICH timing.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Chip Offset			INTEGER (0..38399)	Chips

### 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.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Closed Loop Timing Adjustment Mode			ENUMERATED (Offset1, Offset2,...)	According to 25.214 chapter 7.1: Offset1 = slot(j+1)mod15 Offset2 = slot(j+2)mod15

### 9.2.2.3 Common Channels Capacity Consumption Law

The capacity consumption law indicates the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor.

This capacity consumption law indicates the consumption law to be used with the following procedures :

- Common Transport Channel Setup

In case of usage of the Common Transport Channel Deletion, the consumption cost given in the consumption law must be credited to the Capacity Credit.

If the modelling of the internal resource capability of the 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".

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Common Channels Capacity Consumption Law</b>				
>SF allocation law		<maxNumberOfSF>		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.
>>DL cost	M		INTEGER (0..65535)	
>>UL cost	M		INTEGER (0..65535)	

### 9.2.2.3A Compressed Mode Deactivation Flag

Compressed Mode Deactivation Flag indicates whether Compressed Mode shall be deactivated or not in the new RL.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Compressed Mode Deactivation flag			ENUMERATED (On, Off)	On = deactivate.

### 9.2.2.4 Compressed Mode Method

Defines the method for generating the downlink compressed mode gap, as described in [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Compressed Mode Method			ENUMERATED (None, Puncturing, SF/2, Higher Layer Scheduling)	None = restore the normal mode

Void.

#### 9.2.2.4A CPCH Allowed Total Rate

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CPCH Allowed Total Rate			ENUMERATED (15, 30, 60, 120, 240, 480, 960, 1920, 2880, 3840, 4800, 5760)	Channel Symbol Rate (kps)

#### 9.2.2.4B CPCH Scrambling Code Number

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
CPCH Scrambling Code Number			INTEGER (0..79)	Described in [9]

#### 9.2.2.4C CPCH UL DPCCH Slot Format

Indicates the slot format used in UL CPCH message control part, accordingly to [7]

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL DPCCH slot format			INTEGER (0..2)	

#### 9.2.2.5 D-Field Length

Defines the D Field size of the UL DPCCH slot.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
D Field Length			ENUMERATED (1, 2)	

#### 9.2.2.6 Dedicated Channels Capacity Consumption Law

The capacity consumption law indicates the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor.

This capacity consumption law indicates the consumption law to be used with the following procedures :

- Radio Link Setup
- Radio Link Addition
- Radio Link Reconfiguration (case of increase of the SF)

In case of usage of the Radio Link Deletion or of the Radio Link Reconfiguration (case of decrease of the SF) procedure, the consumption cost given in the consumption law shall be credited to the Capacity Credit.

If the modelling of the internal resource capability of the 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".

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Dedicated Channels Capacity Consumption Law</b>				
>SF allocation law		<maxNumberOfSF>		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.
>>DL cost	M		INTEGER (0..65535)	
>>UL cost	M		INTEGER (0..65535)	

#### 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Diversity Mode			ENUMERATED (None, STTD, Closed loop mode 1, Closed loop mode2)	

#### 9.2.2.10 DL DPCH Slot Format

Indicates the slot format used in DPCH in DL, accordingly to [7].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL DPCH slot format			INTEGER (0..16)	

#### 9.2.2.11 DL frame type

This parameter defines if frame structure type 'A' or 'B' shall be used in downlink compressed mode. This is defined in [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Downlink Frame Type			ENUMERATED (TypeA, TypeB)	

Void.

### 9.2.2.12 DL or Global Capacity Credit

The capacity credit indicates to the CRNC the Downlink or global capacity of a node B or of a local cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL or Global Capacity Credit			INTEGER (0..65535)	

### 9.2.2.12A DL\_power\_averaging\_window\_size

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL_power_averaging_window_size			INTEGER (1..60)	1-60 time slots, step size 1 slot

### 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL TPC pattern 01 count			INTEGER(0..30,...)	

### 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD DL ChannalisationCode Number			INTEGER(0.. 255)	The maximum value is equal to the DL spreading factor –1

### 9.2.2.15 FDD S-CCPCH 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD S-CCPCH Offset			INTEGER(0..149)	0: 0 chip 1: 256 chip 2: 512 chip .. 149: 38144 chip [7]

### 9.2.2.16 FDD TPC DL step size

This parameter indicates step size for the DL power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD TPC Downlink step size			ENUMERATED (0.5, 1, 1.5, 2)	

### 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
First RLS Indicator			ENUMERATED (first RLS, not first RLS)	

### 9.2.2.17 Gap Period

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Gap Period			INTEGER(0..255)	Frames

Void.

### 9.2.2.18 Gap Position Mode

The gap position can be fixed or adjustable, as defined in [8].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Gap Position Mode			ENUMERATED (Fixed, Flexible)	

Void.

### 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max Adjustment Step			INTEGER (1..10)	Slots

### 9.2.2.20A Max Number of PCPCHes

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max Number of PCPCHes			INTEGER(1..64)	

### 9.2.2.21 Maximum Number of UL DPDCHs

This parameter is an UE Radio Access Capability parameter which is needed in rate matching algorithm.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max Number of UL DPDCHs			INTEGER (1..6)	

### 9.2.2.22 Minimum UL Channelisation Code Length

Minimum UL channelisation code length (spreading factor) of a DPDCH which is supported by UE. Needed by rate matching algorithm.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Min UL Channelisation Code length			ENUMERATED(4,8,16,32,64,128,256)	

### 9.2.2.23 Multiplexing Position

Multiplexing Position specifies whether fixed or flexible positions of transport channels shall be used in the physical channel.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Multiplexing Position			ENUMERATED(Fixed, Flexible)	

### 9.2.2.23A N\_EOT

The N\_EOT is defined as number of End of Transmission for release of PCPCH transmission.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
N_EOT			INTEGER (0..8)	TTI

### 9.2.2.23B NF\_max

The NF\_max is defined as maximum number of Frame in a PCPCH message data part.



IE/Group Name	Presence	Range	IE type and reference	Semantics description
NF_max			INTEGER (1..64)	

### 9.2.2.23C N\_Start\_Message

The N\_Start\_Message is defined as number of Frames for start message of DL DPDCHes for a CPCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
N_Start_Message			INTEGER (1..8)	

### 9.2.2.24 Pattern Duration (PD)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PD			INTEGER(0. .2047, ...)	Frames If the value is set to '0', the Pattern Duration shall be interpreted as 'infinite'

### 9.2.2.24A PCP Length

Indicates CPCH power control preamble length.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PCP Length			ENUMERAT ED(0,8)	

### 9.2.2.25 PDSCH code mapping

This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code. There are three ways which the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will typically vary depending on the way in which the UTRAN configures usage of the DSCH.

Method #1 - Using code range

The mapping is described in terms of a number of groups, each group associated with a given spreading factor. The UE maps TFCI(field2) to start of Group = 1. The PDSCH code used for TFCI( field 2) = 1, is given by the SF and code number = 'PDSCH code start' + 1. This continues, with unit increments in the value of TFC mapping to unit increments in code number up until the point that code number = 'PDSCH code stop'. The process continues in the same way for the next group with the TFCI(field 2) value used by the UE when constructing its mapping table starting at the largest value reached in the previous group plus one. In the event that 'PDSCH code start' = 'PDSCH code stop' then PDSCH codes in the following way. The PDSCH code used for TFCI(field 2) = 0, is given by the SF and code number = 'PDSCH code stop' (as may occur when mapping the PDSCH root code to a TFCI (field 2) value) then this is to be interpreted as defining the mapping between the channelisation code and a single TFCI (ie. TFCI(field 2) should not be incremented twice).

Note that each value of TFCI (field 2) maps to a given code number and when the 'multi-code info' parameter is greater than 1, then each value of TFCI (field 2) actually maps to a set of PDSCH codes. In this case contiguous codes are assigned, starting at the channelisation code denoted by the 'code number' parameter and including all codes with code numbers up to and including 'code number' - 1 + the value given in the parameter 'multi-code info'.

## Method #2 - Using TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given PDSCH channelisation code. The PDSCH code specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2)'. The PDSCH code specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2)' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value starting at the largest value reached in the previous group plus one.

## Method #3 - Explicit

The mapping between TFCI(field 2) value and PDSCH channelisation code is spelt out explicitly for each value of TFCI (field2)

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
DL Scrambling Code	M		INTEGER (0..15)	Scrambling code on which PDSCH is transmitted. 0= Primary scrambling code of the cell 1...15 = Secondary scrambling code

<i>Choice signalling method</i>				
<i>&gt;code range</i>				
<b>&gt;&gt;PDSCH code mapping</b>		1 to <MaxNoCodeGroups>		
>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	
>>multi-code info	M		Integer(1..16)	This parameter indicates the number of PDSCH transmitted to the UE. The PDSCH codes all have the same SF as denoted by the Spreading factor parameter. Contiguous codes are assigned, starting at the channelisation code denoted by the spreading factor and code number parameter and including all codes, with code numbers up to and including 'code number' - 1 + 'multi-code info'. Note that 'code number'-1+'multi-code info' will not be allowed to exceed 'maxCodeNumComp'-1
>>Code number	M		Integer(0..maxCodeNumComp-1)	PDSCH code start, Numbering as described in [18]
>>Code number	M		Integer(0..maxCodeNumComp-1)	PDSCH code stop, Numbering as described in [18]
<i>&gt;TFCI range</i>				
<b>&gt;&gt;DSCH mapping</b>		1 to <MaxNoTFCIGroups>		
>>>Max TFCI(field2) value	M		Integer(1..1023)	This is the maximum value in the range of TFCI(field 2) values for which the specified PDSCH code applies
>>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>multi-code info	M		Integer(1..16)	Semantics as described for this parameter above
>>>Code number	M		Integer(0..maxCodeNumComp-1)	Code number of PDSCH code. Numbering as described in [18]
<i>&gt;Explicit</i>				
<b>&gt;&gt;PDSCH code</b>		1 to MaxTFCI_2_Combs		The first instance of the parameter PDSCH code corresponds to TFCI (field2) = 0, the second to TFCI(field 2) = 1 and so on.
>>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>multi-code info	M		Integer(1..16)	Semantics as described for this parameter above
>>>Code number	M		Integer(0..maxCodeNumComp-1)	Code number of PDSCH code. Numbering as described in [18]

Range Bound	Explanation
MaxCodeNumComp	Maximum number of codes at the defined spreading factor, within the complete code tree.
MaxTFCl_2_Combs	Maximum number of TFCl (field 2) combinations (given by 2 raised to the power of the length of the TFCl field 2)
MaxNoTFClGroups	Maximum number of groups, each group described in terms of a range of TFCl(field 2) values for which a single PDSCH code applies.
MaxNoCodeGroups	Maximum number of groups, each group described in terms of a range of PDSCH channelisation code values for which a single spreading factor applies.

### 9.2.2.26 PICH Mode

The number of paging indicators (PIs) in a PICH frame.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
PICH Mode			Enumerated(18, 36, 72, 144)	Number of PI per frame

### 9.2.2.27 Power Adjustment Type

Defines the characteristic of the power adjustment.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Adjustment Type			ENUMERATED (None, Common, Individual)	

### 9.2.2.28 Power Control Mode

Power Control Mode specifies the uplink power mode applied during recovery period after each transmission gap in compressed mode. PCM can take 2 values (0 or 1). The different power control modes are described in [10].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Control Mode			ENUMERATED (0, 1, ...)	

Void.

### 9.2.2.29 Power Offset

This IE defines a power offset relative to the Downlink transmission power of a DPCH or a Secondary CCPCH.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Offset			INTEGER (0..24)	Step 0.25 dB, range 0-6 dB

## 9.2.2.29A Power\_Raise\_Limit

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power_Raise_Limit			INTEGER (0..10)	0-10 dB, step size 1 dB

## 9.2.2.30 Power Resume Mode

Power Resume Mode selects the uplink power control method to calculate the initial transmit power after the gap. PRM can take two values (0 or 1) and is described in [10].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Resume Mode			ENUMERATED (0, 1,...)	Described in [10]

Void.

## 9.2.2.31 Preamble Signature

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Preamble Signatures			BIT STRING (16)	Bit 0=P0 Bit 1=P1 .. Bit 15=P15 [9]

## 9.2.2.32 Preamble threshold

The IE sets the threshold for preamble detection. The threshold is set in dB over the interference level. A Preamble threshold equal to n dB means that the preamble power must be received n dB over the interference in order to be acknowledged.

Information Element/Group Name	Presence	Range	IE type and reference	Semantics description
Preamble threshold			INTEGER (0 , 1, ...,72)	0: 0 dB 1: 0.5 dB 2: 1 dB .. 72: 36.0 dB

## 9.2.2.33 Primary CPICH Power

Primary CPICH power is the power that shall be used for transmitting the P-CPICH in a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Primary CPICH power			Enumerated (-10, ..., 50)	Unit dBm Granularity 0.1 dB

## 9.2.2.34 Primary Scrambling code

The Primary scrambling code to be used in the cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Primary Scrambling Code			Integer (0 .. 511)	

### 9.2.2.35 Propagation Delay

Propagation delay is the one-way propagation delay of the radio signal from the MS to the Node B.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Propagation Delay			INTEGER (0..255)	Chips. Step size is 3 chips. 0=0 chips, 1=3 chips, ...

### 9.2.2.36 QE-Selector

Void

### 9.2.2.37 RACH Slot Format

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RACH Slot Format			ENUMERATED(0..3, ...)	See [7].

### 9.2.2.38 RACH sub Channel numbers

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RACH Sub Channel Numbers			BIT STRING (12)	Bit 0=Sub Channel Number 0 Bit 1=Sub Channel Number 1 ... Bit 11=Sub Channel Number 11

### 9.2.2.39 RL Set ID

The RL Set ID uniquely identifies one RL Set within a Node B Communication Context.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RL Set ID			INTEGER (0..31)	

### 9.2.2.40 S-Field Length

The UE uses the S Field of the UL DPCCH slot to send the SSID Cell ID to the network.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
S Field Length			ENUMERATED (1, 2)	

### 9.2.2.41 Scrambling Code Change

This parameter indicates whether the alternative scrambling code is used for compressed mode method 'SF/2'.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code Change			ENUMERATED (Change, No change)	

Void.

### 9.2.2.42 Scrambling Code Number

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling Code Word Number			INTEGER (0..15)	Identification of scrambling code see Ref. [9].

### 9.2.2.43 Secondary CCPCH Slot Format

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Secondary CCPCH Slot Format			INTEGER(0..17)	

### 9.2.2.44 SS DT Cell Identity

The SS DT Cell ID is a temporary ID for SS DT assigned to a cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SS DT Cell Identity			ENUMERATED (a, b.., h)	

### 9.2.2.45 SS DT Cell ID Length

The SS DT Cell ID Length parameter shows the length of the SS DT Cell ID.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell ID Length			ENUMERATED (Short, Medium, Long)	

### 9.2.2.46 SS DT Support Indicator

The SS DT Support Indicator indicates whether a RL supports SS DT or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
SS DT Support Indicator			ENUMERATED (SS DT Supported, SS DT not supported).	

### 9.2.2.47 SSdT Indication

The SSdT Indication indicates whether SSdT is in use by the UE or not.

IE/Group name	Presence	Range	IE type and reference	Semantics description
SSdT Indication			ENUMERATED(SSdT Active in the UE, SSdT not Active in the UE)	

### 9.2.2.48 STTD Indicator

Indicates if STTD shall be active or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
STTD Indicator			ENUMERATED(active, inactive)	

### 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 BFN. Resolution 256 chips.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
T Cell			Enumerated (0 , 1, ...,9)	0: 0 chip 1: 256 chip .. 9: 2304 chip [17]

### 9.2.2.50 TFCl signalling mode

This parameter indicates if the normal or split mode is used for the TFCl. 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 TFCl (field 2).



IE/Group Name	Presence	Range	IE type and reference	Semantics description
TFCI signalling option	M		ENUMERATED (Normal, Split)	'Normal' : meaning no split in the TFCI field (either 'Logical' or 'Hard') 'Split' : meaning there is a split in the TFCI field (either 'Logical' or 'Hard')
Split type	C-IfSplit		Enumerated (Hard, Logical)	'Hard' : meaning that TFCI (field 1) and TFCI (field 2) are each 5 bits long and each field is block coded separately.  'Logical' : meaning that on the physical layer TFCI (field 1) and TFCI (field 2) are concatenated, field 1 taking the most significant bits and field 2 taking the least significant bits). The whole is then encoded with a single block code.
Length of TFCI2	C-SplitType		Integer (1..10)	This IE indicates the length measured in number of bits of TFCI (field2).

Condition	Explanation
IfSplit	This IE is only present if 'TFCI signalling option' = 'split'
SplitType	This IE is only present if 'Split type' = 'Logical'

### 9.2.2.51 TGD

~~Transmission Gap Distance is the duration of transmission between two consecutive transmission gaps within a transmission gap period, expressed in number of frames. In case there is only one transmission gap in the transmission gap period, this parameter shall be set to zero.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGD			INTEGER(0..3839)	Slots

Void.

### 9.2.2.52 TGL

~~Transmission Gap Length is the duration of no transmission, expressed in number of slots.~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
TGL			ENUMERATED (3,4,7,10,14)	Slot

Void.

### 9.2.2.53 Transmit Diversity Indicator

The Transmit Diversity Indicator indicates whether transmit diversity shall be active or not.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Transmit Diversity Indicator			ENUMERATED(active, inactive)	

### 9.2.2\_53A Transmission Gap Pattern Sequence Information

Defines the parameters for the downlink compressed mode gap pattern sequence. For details see [18].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>Transmission gap pattern Sequence Information</b>		1 to <MaxTGPS>		
>TGPSI	M		Integer(1..<MaxTGPS>)	Transmission Gap Pattern Sequence Identifier Establish a reference to the compressed mode pattern sequence. Up to <MaxTGPS> simultaneous compressed mode pattern sequences can be used.
>TGSN	M		Integer (0..14)	Transmission Gap Starting Slot Number The slot number of the first transmission gap slot within the TGCFN.
>TGL1	M		Integer (1..14)	The length of the first Transmission Gap within the transmission gap pattern expressed in number of slots.
>TGL2	O		Integer (1..14)	The length of the second Transmission Gap within the transmission gap pattern. If omitted, then TGL2=TGL1.
>TGD	M		Integer (0, 15.. 269)	Transmission gap distance indicates the number of slots between the starting slots of two consecutive transmission gaps within a transmission gappattern. If there is only one transmission gap in the transmission gap pattern, this parameter shall be set to 0 (0 =undefined).
>TGPL1	M		Integer (1..144)	The duration of transmission gap pattern 1.
>TGPL2	O		Integer (1..144)	The duration of transmission gap pattern 2. If omitted, then TGPL2=TGPL1.
>RPP	M		Enumerated (mode 0, mode 1).	Recovery Period Power control mode during the frame after the transmission gap within the compressed frame. Indicates whether normal PC mode or compressed PC mode is applied.
>ITPPRM	M		Enumerated (mode 0, mode 1).	Initial Transmit Power is the uplink power control method to be used to compute the initial transmit power after the compressed mode gap.
>UL/DL mode	M		Enumerated (UL only, DL only, UL/DL)	Defines whether only DL, only UL, or combined UL/DL compressed mode is used.
>Downlink compressed mode method	C-DL		Enumerated (puncturing, SF/2, higher layer scheduling)	Method for generating downlink compressed mode gap None means that compressed mode pattern is stopped.
>Uplink compressed mode method	C-UL		Enumerated (SF/2, higher layer scheduling)	Method for generating uplink compressed mode gap.
>Downlink frame type	M		Enumerated (A, B)	Defines if frame structure type 'A' or 'B' shall be used in downlink compressed mode.
DeltaSIR1	M		Integer	Delta in DL SIR target value to

			(0..30)	be set in the <u>Node BUE</u> during the compressed frames corresponding to the first transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase).  Step 0.1
DeltaSIRafter1	M		Integer (0..30)	Delta in <u>DL</u> SIR target value to be set in the <u>Node BUE</u> one frame after the compressed frames corresponding to the first transmission gap in the transmission gap pattern.  Step 0.1
DeltaSIR2	O		Integer (0..30)	Delta in <u>DL</u> SIR target value to be set in the <u>Node BUE</u> during the compressed frames corresponding to the second transmission gap in the transmission gap pattern (without including the effect of the bit-rate increase) When omitted, DeltaSIR2 = DeltaSIR1.  Step 0.1
DeltaSIRafter2	O		Integer (0..30)	Delta in <u>DL</u> SIR target value to be set in the <u>Node BUE</u> one frame after the compressed frames corresponding to the second transmission gap in the transmission gap pattern. When omitted, DeltaSIRafter2 = DeltaSIRafter1.  Step 0.1

Condition	Explanation
C-UL	This information element is only sent when the value of the "UL/DL mode" IE is "UL only" or "UL/DL".
C-DL	This information element is only sent when the value of the "UL/DL mode" IE is "DL only" or "UL/DL".

Range bound	Explanation
MaxTGPS	Maximum number of transmission gap pattern sequences. Value 6.

### 9.2.2.53B Transmission Gap Pattern Sequence Code Information

This IE indicates whether the alternative scrambling code shall be used for the Downlink compressed mode method or not in the Transmission Gap Pattern Sequence. For details see [18].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Scrambling code change			Enumerated (code change, no code change)	Indicates whether the alternative scrambling code is used for compressed mode method 'SF/2'.

### 9.2.2.54 UL/DL compressed mode selection:

This parameter specifies whether compressed mode is used in UL only, DL only or both UL and DL

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL/DL compressed mode selection			ENUMERATED (UL only, DL only, both UL and DL)	

Void.

### 9.2.2.55 UL delta SIR

The delta in uplink SIR that shall be added to the SIR target used during compressed mode frames.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta SIR			Enumerated (-6..+10dB)	Step 0.1 dB.

Void.

### 9.2.2.56 UL delta SIR after

The delta in uplink SIR target that shall be added to the SIR target used one frame after the compressed mode frames.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Uplink Delta SIR after			Enumerated (-6..+10dB)	Step 0.1 dB.

Void.

### 9.2.2.57 UL DPCCH Slot Format

Indicates the slot format used in DPCCH in UL, accordingly to 25.211

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL DPCCH slot format			INTEGER (0..5)	

### 9.2.2.58 UL SIR

The UL SIR indicates a received UL SIR.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL SIR			ENUMERATED (-8.2 .. 17.3)	Step 0.1 dB

### 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<b>UL scrambling code</b>				
>UL scrambling code number	M		INTEGER (0.. $2^{24}-1$ )	
>UL scrambling code length	M		ENUMERATED(Short, Long)	

### 9.2.2.60 UL Capacity Credit

The capacity credit indicates to the CRNC the Uplink capacity of a node B or of a local cell.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
UL Capacity Credit			INTEGER (0..65535)	

## 9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

```

... Text omitted ...

```

ITPPRM ::= ENUMERATED {
  mode-0,
  mode-1
}

```

... Text omitted ...

```

RPM ::= ENUMERATED {
  mode-0,
  mode-1
}

```

... Text omitted ...

```

Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
  SEQUENCE {
    tGPSI          TGPSI,
    tGSN           TGSN,
    tGL1           GapLength,
    tGL2           GapLength  OPTIONAL,
    tGD            TGD,
    tGPL1          GapDuration,
    tGPL2          GapDuration  OPTIONAL,
    rPM         RPM,
    iTPPRM       ITPPRM,
    uL-DL-mode     UL-DL-mode,
    downlink-Compressed-Mode-Method  Downlink-Compressed-Mode-Method  OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
    uplink-Compressed-Mode-Method     Uplink-Compressed-Mode-Method     OPTIONAL,

```

```
-- This IE is only present if the value of the UL/DL mode IE is "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 ::= {
...
}
```



## CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**25.433 CR 196r1**

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **RAN#9**  
list expected approval meeting # here ↑

for approval   
for information

strategic   
non-strategic  (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG    The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** **R-WG3** **Date:** **Aug. 2000**

**Subject:** **Clarification to the RL Failure procedure**

**Work item:**

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:** **Rev1 : Deletes wrong portion(RNSAP part).**

The description of the RL Failure procedure does not clarify how the procedure is used to notify permanent failures of the RL. Clarifications are added.

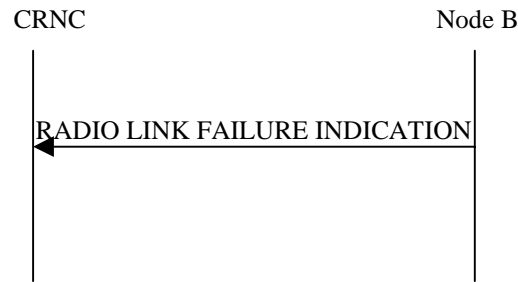
**Clauses affected:** **8.3.12.2**

**Other specs affected:**

Other 3G core specifications	<input type="checkbox"/>	→ List of CRs:	
Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
MS test specifications	<input type="checkbox"/>	→ List of CRs:	
BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
O&M specifications	<input type="checkbox"/>	→ List of CRs:	

**Other comments:**

### 8.3.12.2 Successful Operation



**Figure 43: Radio Link Failure procedure: Successful Operation**

When Node B detects that one or more Radio Link or Radio Link Sets is no longer available, it sends the RADIO LINK FAILURE INDICATION message to CRNC indicating the failed Radio Links or Radio Link Sets with the most appropriate cause values in the *Cause* IE. If the failure concerns one or more individual Radio Links the Node B shall indicate the affected Radio Link(s) using the *RL Information* IE group. [FDD - If the failure concerns one or more Radio Link Sets the Node B shall indicate the affected Radio Link Set(s) using the *RL Set Information* IE group.]

When the Radio Link Failure procedure is used to notify the loss of UL synchronisation, the message shall be sent, with the cause value 'Synchronisation Failure', when indicated by the UL out-of-sync algorithm defined in [10] and [21]. [FDD – The algorithm in [10] shall use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE, and the minimum value of the parameters N\_INSYNC\_IND, that are configured in the cells supporting the radio links of the RL Set].

In the other cases Radio Link Failure procedure is used to indicate that one or more Radio Links or Radio Link Sets 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 Links from the UE context, or the UE context itself.

Typical cause values are:

**Radio Network Layer Causes:**

- Synchronisation Failure

**Miscellaneous Causes:**

- Control Processing Overload
- HW Failure
- O&M Intervention

## CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**25.433**

**CR 197**

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG-RAN#9**

list expected approval meeting # here ↑

for approval   
for information

Strategic   
non-strategic  (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <http://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:**

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

**Source:**

R-WG3

**Date:**

July 2000

**Subject:**

Object Identifier value for NBAP

**Work item:**

**Category:**

(only one category shall be marked with an X)

F Correction

A Corresponds to a correction in an earlier release

B Addition of feature

C Functional modification of feature

D Editorial modification

**Release:**

Phase 2

Release 96

Release 97

Release 98

Release 99

Release 00

**Reason for change:**

The value of Object Identifier for ASN.1 of the NBAP has been decided by 3GPP. In the current NBAP, the values of Object Identifier are not shown. This CR provides this change for NBAP-PDU-Descriptions module, NBAP-PDU-Contents module, NBAP-IEs module, NBAP-CommonDataTypes module, NBAP-Constants module and NBAP-Containers module.

If this change is not accepted, each module in ASN.1 of NBAP will not be recognized.

**Clauses affected:**

9.3.2, 9.3.3, 9.3.4, 9.3.5, 9.3.6, 9.3.7

**Other specs**

Other 3G core specifications

→ List of CRs:

R3-001915, R3-001916, R3-001918

**affected:**

Other GSM core specifications

→ List of CRs:

MS test specifications

→ List of CRs:

BSS test specifications

→ List of CRs:

O&M specifications

→ List of CRs:

**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

## 9.3.2 PDU Description for NBAP

```
-- *****
--
-- Elementary Procedure definitions
--
-- *****

NBAP-PDU-Discriptions --- { object identifier to be allocated }--
NBAP-PDU-Discriptions {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Discriptions (0) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN
```

Partly omitted

## 9.3.3 NBAP PDU Content Definitions

```
-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents --- { object identifier to be allocated }--
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
```

Partly omitted

## 9.3.4 NBAP Information Elements

```
-- *****
--
-- 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
```

Partly omitted

## 9.3.5 NBAP Common Data Type Definitions

```
-- *****
--
-- Common definitions
--
-- *****
```

```
NBAP-CommonDataTypes { object identifier to be allocated }  
NBAP-CommonDataTypes {  
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)  
uims-Access (20) modules (3) nbap (2) version1 (1) nbap-CommonDataTypes (3) }
```

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Partly omitted

### 9.3.6 NBAP Extension Definitions

```
-- *****  
--  
-- Container definitions  
--  
-- *****
```

```
NBAP-Containers { object identifier to be allocated }  
NBAP-Containers {  
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)  
uims-Access (20) modules (3) nbap (2) version1 (1) nbap-Containers (5) }
```

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Partly omitted

### 9.3.7 Constant Definitions for NBAP

```
-- *****  
--  
-- Constant definitions  
--  
-- *****
```

```
NBAP-Constants { object identifier to be allocated }  
NBAP-Constants {  
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)  
uims-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4) }
```

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Partly omitted

**3GPP RAN WG3 Meeting #14  
Helsinki, Finland, 3<sup>rd</sup>-7<sup>th</sup> July 2000**

**Document R3-001945**

e.g. for 3GPP use the format TP-99xxx  
or for SMG, use the format P-99-xxx

<b>CHANGE REQUEST</b>				Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
<b>25.433</b>		<b>CR 198</b>		Current Version: <b>3.2.0</b>	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team			
For submission to: <b>TSG RAN#9</b> <small>list expected approval meeting # here</small> ↑		for approval for information		strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>	
		<input checked="" type="checkbox"/>			
		<input type="checkbox"/>			

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** July 2000

**Subject:** Correction of Errors and Misalignments in the ASN.1 part of NBAP

**Work item:**

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:** This CR corrects the following errors and misalignments in the ASN.1 part of the NBAP specification:

1. The chapter heading of the Constants Module is currently an ASN.1 comment (making it possible to get this heading into the table of Content where it is currently missing). The chapter heading is re-inserted.
2. The order of the ASN.1 modules is not aligned with RANAP, SBAP, and RNSAP. The order of the ASN.1 modules is aligned with RANAP, SBAP, and RNSAP.
3. The chapter headings (names) of the ASN.1 modules is not aligned with RANAP, SBAP, and RNSAP. The chapter headings (names) of ASN.1 modules are aligned with RANAP, SBAP, and RNSAP.

**Clauses affected:** 9.3.2, 9.3.3, 9.3.4, 9.3.5, 9.3.6, and 9.3.7

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:	
------------------------------	---	--	--

**Other comments:**

<----- double-click here for help and instructions on how to create a CR.

### 9.3.2 Elementary Procedure Definitions~~PDU Description for NBAP~~

```
-- *****  
--  
-- Elementary Procedure definitions  
--  
-- *****
```

<Editor's note: The rest of the module is skipped>

### 9.3.3 ~~NBAP~~-PDU ~~Content~~ Definitions

```
-- *****  
--  
-- PDU definitions for NBAP.  
--  
-- *****
```

<Editor's note: The rest of the module is skipped>



### 9.3.4 ~~NBAP~~ Information Elements Definitions

```
--*****  
--  
-- Information Element Definitions  
--  
--*****  
  
<Editor's note: The rest of the module is skipped>
```

### 9.3.5 ~~NBAP~~ Common ~~Data Type~~ Definitions

```
-- *****
--
-- Common definitions
--
-- *****

NBAP-CommonDataTypes -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Criticality      ::= ENUMERATED { reject, ignore, notify }

MessageDiscriminator ::= ENUMERATED { common, dedicated }

Presence        ::= ENUMERATED { optional, conditional, mandatory }

PrivateIE-ID    ::= CHOICE {
    local          INTEGER (0..65535),
    global         OBJECT IDENTIFIER
}

ProcedureCode   ::= INTEGER (0..255)

ProcedureID     ::= SEQUENCE {
    procedureCode  INTEGER (0..255),
    ddMode        ENUMERATED { tdd, fdd, common }
}

ProtocolExtensionID ::= INTEGER (0..65535)

ProtocolIE-ID   ::= INTEGER (0..65535)

TransactionID   ::= CHOICE {
    shortTransActionId  INTEGER (0..127),
    longTransActionId   INTEGER (0..32767)
}

TriggeringMessage ::= ENUMERATED { initiating-message, successful-outcome, unsuccessful-outcome, outcome }

END
```

## 9.3.6 Constant NBAP Extension Definitions

```

-- *****
--
-- Constant definitions
--
-- *****

NBAP-Constants -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- Elementary Procedures
--
-- *****

id-audit INTEGER ::= 0
id-auditRequired INTEGER ::= 1
id-blockResource INTEGER ::= 2
id-cellDeletion INTEGER ::= 3
id-cellReconfiguration INTEGER ::= 4
id-cellSetup INTEGER ::= 5
id-commonMeasurementFailure INTEGER ::= 6
id-commonMeasurementInitiation INTEGER ::= 7
id-commonMeasurementReport INTEGER ::= 8
id-commonMeasurementTermination INTEGER ::= 9
id-commonTransportChannelDelete INTEGER ::= 10
id-commonTransportChannelReconfigure INTEGER ::= 11
id-commonTransportChannelSetup INTEGER ::= 12
id-compressedModeCommand INTEGER ::= 14
id-dedicatedMeasurementFailure INTEGER ::= 16
id-dedicatedMeasurementInitiation INTEGER ::= 17
id-dedicatedMeasurementReport INTEGER ::= 18
id-dedicatedMeasurementTermination INTEGER ::= 19
id-downlinkPowerControl INTEGER ::= 20
id-errorIndicationForDedicated INTEGER ::= 21
id-physicalSharedChannelReconfiguration INTEGER ::= 37
id-privateMessageForDedicated INTEGER ::= 22
id-radioLinkAddition INTEGER ::= 23
id-radioLinkDeletion INTEGER ::= 24
id-radioLinkFailure INTEGER ::= 25
id-radioLinkRestoration INTEGER ::= 26
id-radioLinkSetup INTEGER ::= 27
id-resourceStatusIndication INTEGER ::= 28
id-synchronisedRadioLinkReconfigurationCancellation INTEGER ::= 29
id-synchronisedRadioLinkReconfigurationCommit INTEGER ::= 30
id-synchronisedRadioLinkReconfigurationPreparation INTEGER ::= 31

```

```

id-systemInformationUpdate      INTEGER ::= 32
id-unblockResource              INTEGER ::= 33
id-unSynchronisedRadioLinkReconfiguration  INTEGER ::= 34
id-errorIndicationForCommon     INTEGER ::= 35
id-privateMessageForCommon      INTEGER ::= 36

```

```

-- *****
--
-- Extension constants
--
-- *****

```

```

maxPrivateIEs                   INTEGER ::= 65535
maxProtocolExtensions           INTEGER ::= 65535
maxProtocolIEs                  INTEGER ::= 65535

```

```

-- *****
--
-- Lists
--
-- *****

```

```

maxNrOfCodes                     INTEGER ::= 10
maxNrOfDLTSS                     INTEGER ::= 15
maxNrOfDLCodes                   INTEGER ::= 8
maxNrOfErrors                    INTEGER ::= 256
maxNrOfTFs                       INTEGER ::= 32
maxNrOfTFCs                      INTEGER ::= 1024
maxNrOfRLs                       INTEGER ::= 16
maxNrOfRLSets                    INTEGER ::= maxNrOfRLs
maxNrOfDPCHs                     INTEGER ::= 240
maxNrOfSCCPCHs                  INTEGER ::= 8
maxNrOfCPCHs                     INTEGER ::= 10 -- temporary value
maxNrOfPCPCHs                   INTEGER ::= 64
maxNrOfDCHs                      INTEGER ::= 128
maxNrOfDSCHs                    INTEGER ::= 32
maxNrOfFACHs                     INTEGER ::= 8
maxNrOfCCTrCHs                  INTEGER ::= 16
maxNrOfPDSCHs                   INTEGER ::= 256
maxNrOfPUSCHs                   INTEGER ::= 256
maxNrOfPDSCHSets                INTEGER ::= 256
maxNrOfPUSCHSets                INTEGER ::= 256
maxNrOfULTSs                    INTEGER ::= 15
maxNrOfUSCHs                    INTEGER ::= 32
maxAPSigNum                      INTEGER ::= 16
maxNrOfSlotFormatsPRACH         INTEGER ::= 8
maxCellInNodeB                  INTEGER ::= 256
maxCCPinNodeB                   INTEGER ::= 256
maxCPCHCell                     INTEGER ::= 64
maxCTFC                          INTEGER ::= 16777215
maxLocalCellInNodeB            INTEGER ::= maxCellInNodeB

```

```

maxNoofLen                INTEGER ::= 7
maxRACHCell                INTEGER ::= maxPRACHCell
maxPRACHCell               INTEGER ::= 16
maxPCPCHCell              INTEGER ::= 64
maxSCCPCHCell             INTEGER ::= 32
maxSCPICHCell             INTEGER ::= 32
maxTTI-count              INTEGER ::= 4
maxIBSEG                  INTEGER ::= 16
maxIB                      INTEGER ::= 32
maxFACHCell               INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching           INTEGER ::= 256
maxCodeNrComp-1          INTEGER ::= 256
maxNrOfCodeGroups         INTEGER ::= 256
maxNrOfTFCIGroups        INTEGER ::= 256
maxNrOfTFCI1Combs         INTEGER ::= 512
maxNrOfTFCI2Combs         INTEGER ::= 1024
maxNrOfTFCI2Combs-1       INTEGER ::= 1023
maxNrOfSF                 INTEGER ::= 8
maxTGPS                   INTEGER ::= 6

-- *****
--
-- IEs
--
-- *****

id-AICH-InformationItem-AuditRsp          INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd  INTEGER ::= 1
id-BCH-InformationItem-AuditRsp          INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd  INTEGER ::= 8
id-BCCH-ModificationTime                 INTEGER ::= 9
id-BlockingPriorityIndicator              INTEGER ::= 10
id-CaselItem-Cell-SetupRqstTDD           INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD           INTEGER ::= 12
id-Cause                                  INTEGER ::= 13
id-CCP-InformationItem-AuditRsp          INTEGER ::= 14
id-CCP-InformationList-AuditRsp          INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd  INTEGER ::= 16
id-Cell-InformationItem-AuditRsp          INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd  INTEGER ::= 18
id-Cell-InformationList-AuditRsp          INTEGER ::= 19
id-CellItem-CM-Rprt                      INTEGER ::= 20
id-CellItem-CM-Rqst                       INTEGER ::= 21
id-CellItem-CM-Rsp                        INTEGER ::= 22
id-CellParameterID                       INTEGER ::= 23
id-CFN                                    INTEGER ::= 24
id-C-ID                                   INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD    INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD        INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD        INTEGER ::= 28
id-CombiningItem-RL-SetupFailureFDD       INTEGER ::= 29

```

id-CombiningItem-RL-SetupRspFDD	INTEGER ::= 30
id-CommonMeasurementObjectType-CM-Rprt	INTEGER ::= 31
id-CommonMeasurementObjectType-CM-Rqst	INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp	INTEGER ::= 33
id-CommonMeasurementType	INTEGER ::= 34
id-CommonPhysicalChannelID	INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD	INTEGER ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	INTEGER ::= 37
id-CommonTransportChannelType-CTCH-ReconfRqstTDD	INTEGER ::= 38
id-CommunicationControlPortID	INTEGER ::= 40
id-ConfigurationGenerationID	INTEGER ::= 43
id-CRNC-CommunicationContextID	INTEGER ::= 44
id-CriticalityDiagnostics	INTEGER ::= 45
id-DCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	INTEGER ::= 49
id-DCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 50
id-DCH-AddList-RL-ReconfRqstTDD	INTEGER ::= 51
id-DCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 55
id-DCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 56
id-DCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 57
id-DCH-InformationResponseItem-RL-SetupRspTDD	INTEGER ::= 58
id-DCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 59
id-DCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 62
id-DCH-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 63
id-DCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 64
id-DCH-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 65
id-DedicatedMeasurementObjectType-DM-Rprt	INTEGER ::= 67
id-DedicatedMeasurementObjectType-DM-Rqst	INTEGER ::= 68
id-DedicatedMeasurementObjectType-DM-Rsp	INTEGER ::= 69
id-DedicatedMeasurementType	INTEGER ::= 70
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 73
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 77
id-DL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 78
id-DL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 79
id-DL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 81
id-DL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 82
id-DL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 83
id-DL-ReferencePowerInformationItem-DL-PC-Rqst	INTEGER ::= 84
id-DLReferencePower	INTEGER ::= 85
id-DLReferencePowerList-DL-PC-Rqst	INTEGER ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	INTEGER ::= 87
id-DSCH-AddItem-RL-ReconfRqstFDD	INTEGER ::= 88
id-DSCH-AddList-RL-ReconfPrepFDD	INTEGER ::= 89
id-DSCH-AddList-RL-ReconfRqstFDD	INTEGER ::= 90
id-DSCH-DeleteItem-RL-ReconfPrepFDD	INTEGER ::= 91
id-DSCH-DeleteItem-RL-ReconfRqstFDD	INTEGER ::= 92

id-DSCH-DeleteList-RL-ReconfPrepFDD	INTEGER ::= 93
id-DSCH-DeleteList-RL-ReconfRqstFDD	INTEGER ::= 94
id-DSCH-ID	INTEGER ::= 95
id-DSCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 96
id-DSCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 97
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 98
id-DSCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 99
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 100
id-DSCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 101
id-DSCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 102
id-DSCH-InformationRespListIE-RL-SetupFailureFDD	INTEGER ::= 103
id-DSCH-InformationResponseListIE-RL-SetupRspFDD	INTEGER ::= 104
id-DSCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 105
id-DSCH-InformationList-RL-SetupRqstFDD	INTEGER ::= 106
id-DSCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	INTEGER ::= 108
id-DSCH-ModifyItem-RL-ReconfRqstFDD	INTEGER ::= 109
id-DSCH-ModifyList-RL-ReconfPrepFDD	INTEGER ::= 112
id-DSCH-ModifyList-RL-ReconfRqstFDD	INTEGER ::= 113
id-FACH-InformationItem-AuditRsp	INTEGER ::= 116
id-FACH-InformationItem-ResourceStatusInd	INTEGER ::= 117
id-FACHItem-CTCH-SetupRsp	INTEGER ::= 118
id-FACH-ParametersList-CTCH-ReconfRqstTDD	INTEGER ::= 120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	INTEGER ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	INTEGER ::= 122
id-IndicationType-ResourceStatusInd	INTEGER ::= 123
id-Local-Cell-ID	INTEGER ::= 124
id-Local-Cell-InformationItem-AuditRsp	INTEGER ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	INTEGER ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	INTEGER ::= 127
id-Local-Cell-InformationList-AuditRsp	INTEGER ::= 128
id-AdjustmentPeriod	INTEGER ::= 129
id-MaxAdjustmentStep	INTEGER ::= 130
id-MaximumTransmissionPower	INTEGER ::= 131
id-MeasurementFilterCoefficient	INTEGER ::= 132
id-MeasurementID	INTEGER ::= 133
id-MIB-SIB-InformationList-SystemInfoUpdateRqst	INTEGER ::= 134
id-NodeBInformation-AuditRep	INTEGER ::= 135
id-No-DeletionItem-SystemInfoUpdate	INTEGER ::= 136
id-No-FailureItem-ResourceStatusInd	INTEGER ::= 137
id-Non-CombiningItem-RL-AdditionFailureFDD	INTEGER ::= 138
id-Non-CombiningItem-RL-AdditionRspFDD	INTEGER ::= 139
id-Non-CombiningItem-RL-AdditionRspTDD	INTEGER ::= 140
id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD	INTEGER ::= 141
id-NonCombiningOrFirstRLItem-RL-SetupRspFDD	INTEGER ::= 142
id-NodeB-CommunicationContextID	INTEGER ::= 143
id-P-CCPCH-InformationItem-AuditRsp	INTEGER ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 145
id-P-CPICH-InformationItem-AuditRsp	INTEGER ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 147
id-P-SCH-InformationItem-AuditRsp	INTEGER ::= 148

id-P-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 149
id-PCCPCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 150
id-PCCPCH-Information-Cell-SetupRqstTDD	INTEGER ::= 151
id-PCH-InformationItem-ResourceStatusInd	INTEGER ::= 152
id-PCHItem-CTCH-SetupRsp	INTEGER ::= 153
id-PCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 156
id-PCH-ParametersItem-CTCH-SetupRqstTDD	INTEGER ::= 157
id-PCH-InformationItem-AuditRsp	INTEGER ::= 158
id-PICH-InformationItem-ResourceStatusInd	INTEGER ::= 159
id-PD	INTEGER ::= 160
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 165
id-PICH-InformationItem-AuditRsp	INTEGER ::= 166
id-PICH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 168
id-PowerAdjustmentType	INTEGER ::= 169
id-PRACH-InformationItem-AuditRsp	INTEGER ::= 170
id-PRACH-InformationItem-ResourceStatusInd	INTEGER ::= 171
id-PRACHItem-CTCH-SetupRqstFDD	INTEGER ::= 172
id-PRACHItem-CTCH-SetupRqstTDD	INTEGER ::= 173
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	INTEGER ::= 176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	INTEGER ::= 177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	INTEGER ::= 178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 179
id-PrimarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 180
id-PrimaryScramblingCode	INTEGER ::= 181
id-ProcedureScopeType-DL-PC-Rqst	INTEGER ::= 182
id-SCH-Information-Cell-ReconfRqstTDD	INTEGER ::= 183
id-SCH-Information-Cell-SetupRqstTDD	INTEGER ::= 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	INTEGER ::= 185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	INTEGER ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRqst	INTEGER ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	INTEGER ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	INTEGER ::= 189
id-RACH-InformationItem-AuditRsp	INTEGER ::= 190
id-RACH-InformationItem-ResourceStatusInd	INTEGER ::= 191
id-RACHItem-CTCH-SetupRsp	INTEGER ::= 192
id-RACHItem-CM-Rprt	INTEGER ::= 193
id-RACHItem-CM-Rqst	INTEGER ::= 194
id-RACHItem-CM-Rsp	INTEGER ::= 195
id-RACH-ParametersItem-CTCH-SetupRqstFDD	INTEGER ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	INTEGER ::= 197
id-ReportCharacteristics	INTEGER ::= 198
id-Reporting-Object-RL-FailureInd	INTEGER ::= 199
id-Reporting-Object-RL-RestoreInd	INTEGER ::= 200
id-RL-ID	INTEGER ::= 201
id-RL-InformationItem-DM-Rprt	INTEGER ::= 202



id-RL-InformationItem-DM-Rqst	INTEGER ::= 203
id-RL-InformationItem-DM-Rsp	INTEGER ::= 204
id-RL-InformationItem-RL-AdditionRqstFDD	INTEGER ::= 205
id-RL-informationItem-RL-DeletionRqst	INTEGER ::= 206
id-RL-InformationItem-RL-FailureInd	INTEGER ::= 207
id-RL-InformationItem-RL-ReconfPrepFDD	INTEGER ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD	INTEGER ::= 209
id-RL-InformationItem-RL-RestoreInd	INTEGER ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	INTEGER ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	INTEGER ::= 212
id-RL-informationList-RL-DeletionRqst	INTEGER ::= 213
id-RL-InformationList-RL-ReconfPrepFDD	INTEGER ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	INTEGER ::= 215
id-RL-InformationList-RL-SetupRqstFDD	INTEGER ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	INTEGER ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	INTEGER ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	INTEGER ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	INTEGER ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	INTEGER ::= 221
id-RL-InformationResponseList-RL-ReconfReady	INTEGER ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	INTEGER ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	INTEGER ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	INTEGER ::= 225
id-RL-InformationResponse-RL-SetupRspTDD	INTEGER ::= 226
id-RL-Information-RL-AdditionRqstTDD	INTEGER ::= 227
id-RL-Information-RL-ReconfRqstTDD	INTEGER ::= 228
id-RL-Information-RL-ReconfPrepTDD	INTEGER ::= 229
id-RL-Information-RL-SetupRqstTDD	INTEGER ::= 230
id-RLItem-DM-Rprt	INTEGER ::= 231
id-RLItem-DM-Rqst	INTEGER ::= 232
id-RLItem-DM-Rsp	INTEGER ::= 233
id-RLItem-RL-FailureInd	INTEGER ::= 234
id-RLItem-RL-RestoreInd	INTEGER ::= 235
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	INTEGER ::= 236
id-RL-Set-InformationItem-DM-Rprt	INTEGER ::= 238
id-RL-SetItem-DM-Rqst	INTEGER ::= 239
id-RL-Set-InformationItem-DM-Rsp	INTEGER ::= 240
id-RL-Set-InformationItem-RL-FailureInd	INTEGER ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	INTEGER ::= 242
id-RL-SetItem-DM-Rprt	INTEGER ::= 243
id-RL-SetItem-DM-Rsp	INTEGER ::= 244
id-RL-SetItem-RL-FailureInd	INTEGER ::= 245
id-RL-SetItem-RL-RestoreInd	INTEGER ::= 246
id-S-CCPCH-InformationItem-AuditRsp	INTEGER ::= 247
id-S-CCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 248
id-S-CPICH-InformationItem-AuditRsp	INTEGER ::= 249
id-S-CPICH-InformationItem-ResourceStatusInd	INTEGER ::= 250
id-SCH-InformationItem-AuditRsp	INTEGER ::= 251
id-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 252
id-S-SCH-InformationItem-AuditRsp	INTEGER ::= 253
id-S-SCH-InformationItem-ResourceStatusInd	INTEGER ::= 254

id-Secondary-CCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 255
id-Secondary-CCPCHItem-CTCH-SetupRqstTDD	INTEGER ::= 256
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	INTEGER ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	INTEGER ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	INTEGER ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	INTEGER ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	INTEGER ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	INTEGER ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	INTEGER ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	INTEGER ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	INTEGER ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	INTEGER ::= 266
id-ServiceImpactingItem-ResourceStatusInd	INTEGER ::= 267
id-SFN	INTEGER ::= 268
id-ShutdownTimer	INTEGER ::= 269
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 271
id-Successful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 272
id-Successful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 273
id-SyncCase	INTEGER ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	INTEGER ::= 275
id-T-Cell	INTEGER ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	INTEGER ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	INTEGER ::= 278
id-TransmissionDiversityApplied	INTEGER ::= 279
id-UARFCNforNt	INTEGER ::= 280
id-UARFCNforNd	INTEGER ::= 281
id-UARFCNforNu	INTEGER ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	INTEGER ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 285
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	INTEGER ::= 289
id-UL-DPCH-InformationList-RL-AdditionRqstTDD	INTEGER ::= 290
id-UL-DPCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	INTEGER ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	INTEGER ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	INTEGER ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	INTEGER ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	INTEGER ::= 297
id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD	INTEGER ::= 298
id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD	INTEGER ::= 299
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	INTEGER ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	INTEGER ::= 301
id-USCH-information-AddList-RL-ReconfPrepTDD	INTEGER ::= 302
id-USCH-Information-AddList-RL-ReconfRqstTDD	INTEGER ::= 303
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	INTEGER ::= 304
id-USCH-Information-DeleteList-RL-ReconfRqstTDD	INTEGER ::= 305
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	INTEGER ::= 306
id-USCH-Information-ModifyList-RL-ReconfRqstTDD	INTEGER ::= 307
id-USCH-InformationResponseListIE-RL-AdditionRspTDD	INTEGER ::= 308
id-USCH-InformationResponseListIE-RL-SetupRspTDD	INTEGER ::= 309

id-USCH-InformationList-RL-SetupRqstTDD	INTEGER ::= 310
id-Active-Pattern-Sequence-Information	INTEGER ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 316
id-AdjustmentRatio	INTEGER ::= 317
id-AllRLItem-DM-Rqst	INTEGER ::= 318
id-AllRLItem-Set-DM-Rqst	INTEGER ::= 319
id-AP-AICH-InformationItem-AuditRsp	INTEGER ::= 320
id-AP-AICH-InformationItem-ResourceStatusInd	INTEGER ::= 321
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 323
id-CauseLevel-PSCH-ReconfFailureTDD	INTEGER ::= 324
id-CauseLevel-RL-AdditionFailureFDD	INTEGER ::= 325
id-CauseLevel-RL-AdditionFailureTDD	INTEGER ::= 326
id-CauseLevel-RL-ReconfFailure	INTEGER ::= 327
id-CauseLevel-RL-SetupFailureFDD	INTEGER ::= 328
id-CauseLevel-RL-SetupFailureTDD	INTEGER ::= 329
id-CDCA-ICH-InformationItem-AuditRsp	INTEGER ::= 330
id-CDCA-ICH-InformationItem-ResourceStatusInd	INTEGER ::= 331
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 332
id-Closed-Loop-Timing-Adjustment-Mode	INTEGER ::= 333
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	INTEGER ::= 334
id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD	INTEGER ::= 335
id-CPCH-InformationItem-AuditRsp	INTEGER ::= 336
id-CPCH-InformationItem-ResourceStatusInd	INTEGER ::= 337
id-CPCHItem-CM-Rprt	INTEGER ::= 338
id-CPCHItem-CM-Rqst	INTEGER ::= 339
id-CPCHItem-CM-Rsp	INTEGER ::= 340
id-CPCHListItem-CTCH-ReconfRqstFDD	INTEGER ::= 341
id-CPCH-Parameters-CTCH-SetupRsp	INTEGER ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 343
id-DCH-InformationResponseListIE-RL-ReconfReady	INTEGER ::= 344
id-DCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 345
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	INTEGER ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	INTEGER ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	INTEGER ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	INTEGER ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	INTEGER ::= 352
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	INTEGER ::= 353
id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD	INTEGER ::= 354
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	INTEGER ::= 355
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	INTEGER ::= 356
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	INTEGER ::= 357
id-DL-TPC-Pattern01Count	INTEGER ::= 358
id-DPCHConstant	INTEGER ::= 359
id-DSCH-InformationResponseListIE-RL-ReconfReady	INTEGER ::= 360
id-DSCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 361
id-FACH-ParametersList-CTCH-SetupRsp	INTEGER ::= 362
id-GeneralCauseItem-PSCH-ReconfFailureTDD	INTEGER ::= 363
id-GeneralCauseItem-RL-AdditionFailureFDD	INTEGER ::= 364

id-GeneralCauseItem-RL-AdditionFailureTDD	INTEGER ::= 365
id-GeneralCauseItem-RL-ReconfFailure	INTEGER ::= 366
id-GeneralCauseItem-RL-SetupFailureFDD	INTEGER ::= 367
id-GeneralCauseItem-RL-SetupFailureTDD	INTEGER ::= 368
id-Limited-power-increase-information-Cell-SetupRqstFDD	INTEGER ::= 369
id-MeasurementAvailableItem-CommonMeasurementReport	INTEGER ::= 370
id-MeasurementnotAvailableItem-CommonMeasurementReport	INTEGER ::= 371
id-MeasurementAvailableItem-DedicatedMeasurementReport	INTEGER ::= 372
id-MeasurementnotAvailableItem-DedicatedMeasurementReport	INTEGER ::= 373
id-PCH-Parameters-CTCH-SetupRsp	INTEGER ::= 374
id-PCH-ParametersItem-CTCH-ReconfRqstFDD	INTEGER ::= 375
id-PCPCH-InformationItem-AuditRsp	INTEGER ::= 376
id-PCPCH-InformationItem-ResourceStatusInd	INTEGER ::= 377
id-PCPCHItem-CTCH-SetupRqstFDD	INTEGER ::= 378
id-PCPCH-ParametersList-CTCH-ReconfRqstFDD	INTEGER ::= 379
id-PICH-ParametersItem-CTCH-ReconfRqstFDD	INTEGER ::= 380
id-PRACHConstant	INTEGER ::= 381
id-PRACHListIE-CTCH-ReconfRqstFDD	INTEGER ::= 382
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD	INTEGER ::= 383
id-PUSCHConstant	INTEGER ::= 384
id-RACH-Parameters-CTCH-SetupRsp	INTEGER ::= 385
id-RLSpecificCauseItem-RL-AdditionFailureFDD	INTEGER ::= 386
id-RLSpecificCauseItem-RL-AdditionFailureTDD	INTEGER ::= 387
id-RLSpecificCauseItem-RL-ReconfFailure	INTEGER ::= 388
id-RLSpecificCauseItem-RL-SetupFailureFDD	INTEGER ::= 389
id-RLSpecificCauseItem-RL-SetupFailureTDD	INTEGER ::= 390
id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD	INTEGER ::= 391
id-SetSpecificCauseItem-PSCH-ReconfFailureTDD	INTEGER ::= 392
id-Synchronisation-Configuration-Cell-ReconfRqst	INTEGER ::= 393
id-Synchronisation-Configuration-Cell-SetupRqst	INTEGER ::= 394
id-Transmission-Gap-Pattern-Sequence-Information	INTEGER ::= 395
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	INTEGER ::= 396
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	INTEGER ::= 397
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	INTEGER ::= 398
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	INTEGER ::= 399
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	INTEGER ::= 400
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	INTEGER ::= 401
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	INTEGER ::= 402
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	INTEGER ::= 403
id-UL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD	INTEGER ::= 404
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	INTEGER ::= 405
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	INTEGER ::= 406
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	INTEGER ::= 407
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD	INTEGER ::= 408
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD	INTEGER ::= 409
id-USCH-InformationResponseListIE-RL-ReconfReady	INTEGER ::= 410
id-USCH-InformationResponseListIE-RL-ReconfRsp	INTEGER ::= 411

END

```

-----
--
-- Container definitions
--
-----

NBAP-Containers -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-----
--
-- IE parameter types from other modules.
--
-----

IMPORTS
-- Criticality,
-- Presence,
-- PrivateIE-ID,
-- ProtocolExtensionID,
-- ProtocolIE-ID
FROM NBAP-CommonDataTypes

-- maxProtocolExtensions,
-- maxPrivateIEs,
-- maxProtocolIEs
FROM NBAP-Constants;

-----
--
-- Class Definition for Protocol IEs
--
-----

NBAP-PROTOCOL-IES ::= 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-IES-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 ProtocolExtensionID UNIQUE,
  &criticality Criticality,
  &Extension,
  &presence Presence
}
WITH SYNTAX {
  ID &id
  CRITICALITY &criticality
  EXTENSION &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-Field {NBAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {
  id NBAP-PROTOCOL-IES.&id ({{IEsSetParam}}),
  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
  --
  *****

ProtocolExtensionContainer {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=
  SEQUENCE (SIZE (1..maxProtocolExtensions)) OF
  ProtocolExtensionField {{ExtensionSetParam}}

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
  {{IEsSetParam}}{@id}}
}

END

```



## 9.3.7 Container Definitions

```

-- *****
--
-- Container definitions
--
-- *****

NBAP-Containers -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Criticality,
    Presence,
    PrivateIE-ID,
    ProtocolExtensionID,
    ProtocolIE-ID
FROM NBAP-CommonDataTypes

    maxProtocolExtensions,
    maxPrivateIEs,
    maxProtocolIEs
FROM NBAP-Constants;

-- *****
--
-- Class Definition for Protocol IEs
--
-- *****

NBAP-PROTOCOL-IES ::= 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-IES-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          ProtocolExtensionID     UNIQUE,
    &criticality Criticality,
    &Extension,
    &presence     Presence
}
WITH SYNTAX {
    ID          &id
    CRITICALITY &criticality
    EXTENSION   &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-Field {NBAP-PROTOCOL-IES : IEsSetParam} ::= SEQUENCE {
  id             NBAP-PROTOCOL-IES.&id             ({IEsSetParam}),
  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
--
-- *****

ProtocolExtensionContainer {NBAP-PROTOCOL-EXTENSION : ExtensionSetParam} ::=
  SEQUENCE (SIZE (1..maxProtocolExtensions)) OF
    ProtocolExtensionField {{ExtensionSetParam}}

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
    ({IEsSetParam}@id)}
}

END

--9.3.7 Constant Definitions for NBAP
-- *****
--
-- Constant definitions
--
-- *****

```

```

NBAP Constants { object identifier to be allocated }
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- Elementary Procedures
--
-- *****

id-audit INTEGER ::= 0
id-auditRequired INTEGER ::= 1
id-blockResource INTEGER ::= 2
id-cellDeletion INTEGER ::= 3
id-cellReconfiguration INTEGER ::= 4
id-cellSetup INTEGER ::= 5
id-commonMeasurementFailure INTEGER ::= 6
id-commonMeasurementInitiation INTEGER ::= 7
id-commonMeasurementReport INTEGER ::= 8
id-commonMeasurementTermination INTEGER ::= 9
id-commonTransportChannelDelete INTEGER ::= 10
id-commonTransportChannelReconfigure INTEGER ::= 11
id-commonTransportChannelSetup INTEGER ::= 12
id-compressedModeCommand INTEGER ::= 14
id-dedicatedMeasurementFailure INTEGER ::= 16
id-dedicatedMeasurementInitiation INTEGER ::= 17
id-dedicatedMeasurementReport INTEGER ::= 18
id-dedicatedMeasurementTermination INTEGER ::= 19
id-downlinkPowerControl INTEGER ::= 20
id-errorIndicationForDedicated INTEGER ::= 21
id-physicalSharedChannelReconfiguration INTEGER ::= 37
id-privateMessageForDedicated INTEGER ::= 22
id-radioLinkAddition INTEGER ::= 23
id-radioLinkDeletion INTEGER ::= 24
id-radioLinkFailure INTEGER ::= 25
id-radioLinkRestoration INTEGER ::= 26
id-radioLinkSetup INTEGER ::= 27
id-resourceStatusIndication INTEGER ::= 28
id-synchronisedRadioLinkReconfigurationCancellation INTEGER ::= 29
id-synchronisedRadioLinkReconfigurationCommit INTEGER ::= 30
id-synchronisedRadioLinkReconfigurationPreparation INTEGER ::= 31
id-systemInformationUpdate INTEGER ::= 32
id-unblockResource INTEGER ::= 33
id-unSynchronisedRadioLinkReconfiguration INTEGER ::= 34
id-errorIndicationForCommon INTEGER ::= 35
id-privateMessageForCommon INTEGER ::= 36

-- *****
--

```

```

-- Extension constants
--
*****

maxPrivateIEs ----- INTEGER ::= 65535
maxProtocolExtensions ----- INTEGER ::= 65535
maxProtocolIEs ----- INTEGER ::= 65535

*****

--
-- Lists
--
*****

maxNrOfCodes ----- INTEGER ::= 10
maxNrOfDLTSS ----- INTEGER ::= 15
maxNrOfDLCodes ----- INTEGER ::= 8
maxNrOfErrors ----- INTEGER ::= 256
maxNrOfTFs ----- INTEGER ::= 32
maxNrOfTFCs ----- INTEGER ::= 1024
maxNrOfRLs ----- INTEGER ::= 16
maxNrOfRLSets ----- INTEGER ::= maxNrOfRLs
maxNrOfDPCHs ----- INTEGER ::= 240
maxNrOfSCCPCHs ----- INTEGER ::= 8
maxNrOfCPCHs ----- INTEGER ::= 10 --- temporary value
maxNrOfPCPCHs ----- INTEGER ::= 64
maxNrOfDCCHs ----- INTEGER ::= 128
maxNrOfDSCHs ----- INTEGER ::= 32
maxNrOfFACHs ----- INTEGER ::= 8
maxNrOfCCTrCHs ----- INTEGER ::= 16
maxNrOfPDSCHs ----- INTEGER ::= 256
maxNrOfPUSCHs ----- INTEGER ::= 256
maxNrOfPDSCHSets ----- INTEGER ::= 256
maxNrOfPUSCHSets ----- INTEGER ::= 256
maxNrOfULTSS ----- INTEGER ::= 15
maxNrOfUSCHs ----- INTEGER ::= 32
maxAPSigNum ----- INTEGER ::= 16
maxNrOfSlotFormatsPRACH ----- INTEGER ::= 8
maxCellInNodeB ----- INTEGER ::= 256
maxCCPinNodeB ----- INTEGER ::= 256
maxCPCHCell ----- INTEGER ::= 64
maxCTFC ----- INTEGER ::= 16777215
maxLocalCellInNodeB ----- INTEGER ::= maxCellInNodeB
maxNoOfLen ----- INTEGER ::= 7
maxRACHCell ----- INTEGER ::= maxPRACHCell
maxPRACHCell ----- INTEGER ::= 16
maxPCPCHCell ----- INTEGER ::= 64
maxSCCPCHCell ----- INTEGER ::= 32
maxSCPICHCell ----- INTEGER ::= 32
maxTTI-count ----- INTEGER ::= 4
maxIBSEG ----- INTEGER ::= 16

```

```

maxIB INTEGER ::= 32
maxFACHCell INTEGER ::= 256 maxNrOfFACHs * maxSCCPCHCell
maxRateMatching INTEGER ::= 256
maxCodeNrComp-1 INTEGER ::= 256
maxNrOfCodeGroups INTEGER ::= 256
maxNrOfTFCIGroups INTEGER ::= 256
maxNrOfTFCI1Combs INTEGER ::= 512
maxNrOfTFCI2Combs INTEGER ::= 1024
maxNrOfTFCI2Combs-1 INTEGER ::= 1023
maxNrOfSF INTEGER ::= 8
maxTGPS INTEGER ::= 6

-----
-----
IEs
-----
-----

id-AICH-InformationItem-AuditRsp INTEGER ::= 0
id-AICH-InformationItem-ResourceStatusInd INTEGER ::= 1
id-BCH-InformationItem-AuditRsp INTEGER ::= 7
id-BCH-InformationItem-ResourceStatusInd INTEGER ::= 8
id-BCCH-ModificationTime INTEGER ::= 9
id-BlockingPriorityIndicator INTEGER ::= 10
id-Case1Item-Cell-SetupRqstTDD INTEGER ::= 11
id-Case2Item-Cell-SetupRqstTDD INTEGER ::= 12
id-Cause INTEGER ::= 13
id-CCP-InformationItem-AuditRsp INTEGER ::= 14
id-CCP-InformationList-AuditRsp INTEGER ::= 15
id-CCP-InformationItem-ResourceStatusInd INTEGER ::= 16
id-Cell-InformationItem-AuditRsp INTEGER ::= 17
id-Cell-InformationItem-ResourceStatusInd INTEGER ::= 18
id-Cell-InformationList-AuditRsp INTEGER ::= 19
id-CellItem-CM-Rprt INTEGER ::= 20
id-CellItem-CM-Rqst INTEGER ::= 21
id-CellItem-CM-Rsp INTEGER ::= 22
id-CellParameterID INTEGER ::= 23
id-CFN INTEGER ::= 24
id-C-ID INTEGER ::= 25
id-CombiningItem-RL-AdditionFailureFDD INTEGER ::= 26
id-CombiningItem-RL-AdditionRspFDD INTEGER ::= 27
id-CombiningItem-RL-AdditionRspTDD INTEGER ::= 28
id-CombiningItem-RL-SetupFailureFDD INTEGER ::= 29
id-CombiningItem-RL-SetupRspFDD INTEGER ::= 30
id-CommonMeasurementObjectType-CM-Rprt INTEGER ::= 31
id-CommonMeasurementObjectType-CM-Rqst INTEGER ::= 32
id-CommonMeasurementObjectType-CM-Rsp INTEGER ::= 33
id-CommonMeasurementType INTEGER ::= 34
id-CommonPhysicalChannelID INTEGER ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD INTEGER ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD INTEGER ::= 37

```

<del>id-CommonTransportChannelType-CTCH-ReconfRqstTDD</del>	<del>INTEGER ::= 38</del>
<del>id-CommunicationControlPortID</del>	<del>INTEGER ::= 40</del>
<del>id-ConfigurationGenerationID</del>	<del>INTEGER ::= 43</del>
<del>id-CRNC-CommunicationContextID</del>	<del>INTEGER ::= 44</del>
<del>id-CriticalityDiagnostics</del>	<del>INTEGER ::= 45</del>
<del>id-DCH-AddList-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 48</del>
<del>id-DCH-AddList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 49</del>
<del>id-DCH-AddList-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 50</del>
<del>id-DCH-AddList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 51</del>
<del>id-DCH-DeleteList-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 52</del>
<del>id-DCH-DeleteList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 53</del>
<del>id-DCH-DeleteList-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 54</del>
<del>id-DCH-DeleteList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 55</del>
<del>id-DCH-InformationList-RL-SetupRqstFDD</del>	<del>INTEGER ::= 56</del>
<del>id-DCH-InformationList-RL-SetupRqstTDD</del>	<del>INTEGER ::= 57</del>
<del>id-DCH-InformationResponseItem-RL-SetupRspTDD</del>	<del>INTEGER ::= 58</del>
<del>id-DCH-InformationResponseListIE-RL-SetupRspTDD</del>	<del>INTEGER ::= 59</del>
<del>id-DCH-ModifyList-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 62</del>
<del>id-DCH-ModifyList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 63</del>
<del>id-DCH-ModifyList-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 64</del>
<del>id-DCH-ModifyList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 65</del>
<del>id-DedicatedMeasurementObjectType-DM-Rprt</del>	<del>INTEGER ::= 67</del>
<del>id-DedicatedMeasurementObjectType-DM-Rqst</del>	<del>INTEGER ::= 68</del>
<del>id-DedicatedMeasurementObjectType-DM-Rsp</del>	<del>INTEGER ::= 69</del>
<del>id-DedicatedMeasurementType</del>	<del>INTEGER ::= 70</del>
<del>id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD</del>	<del>INTEGER ::= 72</del>
<del>id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD</del>	<del>INTEGER ::= 73</del>
<del>id-DL-CCTrCH-InformationList-RL-SetupRqstTDD</del>	<del>INTEGER ::= 76</del>
<del>id-DL-DPCH-InformationItem-RL-AdditionRqstTDD</del>	<del>INTEGER ::= 77</del>
<del>id-DL-DPCH-InformationList-RL-AdditionRqstTDD</del>	<del>INTEGER ::= 78</del>
<del>id-DL-DPCH-InformationList-RL-SetupRqstTDD</del>	<del>INTEGER ::= 79</del>
<del>id-DL-DPCH-Information-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 81</del>
<del>id-DL-DPCH-Information-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 82</del>
<del>id-DL-DPCH-Information-RL-SetupRqstFDD</del>	<del>INTEGER ::= 83</del>
<del>id-DL-ReferencePowerInformationItem-DL-PC-Rqst</del>	<del>INTEGER ::= 84</del>
<del>id-DLReferencePower</del>	<del>INTEGER ::= 85</del>
<del>id-DLReferencePowerList-DL-PC-Rqst</del>	<del>INTEGER ::= 86</del>
<del>id-DSCH-AddItem-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 87</del>
<del>id-DSCH-AddItem-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 88</del>
<del>id-DSCH-AddList-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 89</del>
<del>id-DSCH-AddList-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 90</del>
<del>id-DSCH-DeleteItem-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 91</del>
<del>id-DSCH-DeleteItem-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 92</del>
<del>id-DSCH-DeleteList-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 93</del>
<del>id-DSCH-DeleteList-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 94</del>
<del>id-DSCH-ID</del>	<del>INTEGER ::= 95</del>
<del>id-DSCH-information-AddList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 96</del>
<del>id-DSCH-Information-AddList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 97</del>
<del>id-DSCH-Information-DeleteList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 98</del>
<del>id-DSCH-Information-DeleteList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 99</del>
<del>id-DSCH-Information-ModifyList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 100</del>



<del>id-DSCH-Information-ModifyList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 101</del>
<del>id-DSCH-InformationResponseListIE-RL-AdditionRspTDD</del>	<del>INTEGER ::= 102</del>
<del>id-DSCH-InformationRespListIE-RL-SetupFailureFDD</del>	<del>INTEGER ::= 103</del>
<del>id-DSCH-InformationResponseListIE-RL-SetupRspFDD</del>	<del>INTEGER ::= 104</del>
<del>id-DSCH-InformationResponseListIE-RL-SetupRspTDD</del>	<del>INTEGER ::= 105</del>
<del>id-DSCH-InformationList-RL-SetupRqstFDD</del>	<del>INTEGER ::= 106</del>
<del>id-DSCH-InformationList-RL-SetupRqstTDD</del>	<del>INTEGER ::= 107</del>
<del>id-DSCH-ModifyItem-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 108</del>
<del>id-DSCH-ModifyItem-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 109</del>
<del>id-DSCH-ModifyList-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 112</del>
<del>id-DSCH-ModifyList-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 113</del>
<del>id-FACH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 116</del>
<del>id-FACH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 117</del>
<del>id-FACHItem-CTCH-SetupRsp</del>	<del>INTEGER ::= 118</del>
<del>id-FACH-ParametersList-CTCH-ReconfRqstTDD</del>	<del>INTEGER ::= 120</del>
<del>id-FACH-ParametersListIE-CTCH-SetupRqstFDD</del>	<del>INTEGER ::= 121</del>
<del>id-FACH-ParametersListIE-CTCH-SetupRqstTDD</del>	<del>INTEGER ::= 122</del>
<del>id-IndicationType-ResourceStatusInd</del>	<del>INTEGER ::= 123</del>
<del>id-Local-Cell-ID</del>	<del>INTEGER ::= 124</del>
<del>id-Local-Cell-InformationItem-AuditRsp</del>	<del>INTEGER ::= 125</del>
<del>id-Local-Cell-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 126</del>
<del>id-Local-Cell-InformationItem2-ResourceStatusInd</del>	<del>INTEGER ::= 127</del>
<del>id-Local-Cell-InformationList-AuditRsp</del>	<del>INTEGER ::= 128</del>
<del>id-AdjustmentPeriod</del>	<del>INTEGER ::= 129</del>
<del>id-MaxAdjustmentStep</del>	<del>INTEGER ::= 130</del>
<del>id-MaximumTransmissionPower</del>	<del>INTEGER ::= 131</del>
<del>id-MeasurementFilterCoefficient</del>	<del>INTEGER ::= 132</del>
<del>id-MeasurementID</del>	<del>INTEGER ::= 133</del>
<del>id-MIB-SIB-InformationList-SystemInfoUpdateRqst</del>	<del>INTEGER ::= 134</del>
<del>id-NodeBInformation-AuditRep</del>	<del>INTEGER ::= 135</del>
<del>id-No-DeletionItem-SystemInfoUpdate</del>	<del>INTEGER ::= 136</del>
<del>id-No-FailureItem-ResourceStatusInd</del>	<del>INTEGER ::= 137</del>
<del>id-Non-CombiningItem-RL-AdditionFailureFDD</del>	<del>INTEGER ::= 138</del>
<del>id-Non-CombiningItem-RL-AdditionRspFDD</del>	<del>INTEGER ::= 139</del>
<del>id-Non-CombiningItem-RL-AdditionRspTDD</del>	<del>INTEGER ::= 140</del>
<del>id-NonCombiningOrFirstRLItem-RL-SetupFailureFDD</del>	<del>INTEGER ::= 141</del>
<del>id-NonCombiningOrFirstRLItem-RL-SetupRspFDD</del>	<del>INTEGER ::= 142</del>
<del>id-NodeB-CommunicationContextID</del>	<del>INTEGER ::= 143</del>
<del>id-P-CCPCH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 144</del>
<del>id-P-CCPCH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 145</del>
<del>id-P-CPICH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 146</del>
<del>id-P-CPICH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 147</del>
<del>id-P-SCH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 148</del>
<del>id-P-SCH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 149</del>
<del>id-PCCPCH-Information-Cell-ReconfRqstTDD</del>	<del>INTEGER ::= 150</del>
<del>id-PCCPCH-Information-Cell-SetupRqstTDD</del>	<del>INTEGER ::= 151</del>
<del>id-PCH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 152</del>
<del>id-PCHItem-CTCH-SetupRsp</del>	<del>INTEGER ::= 153</del>
<del>id-PCH-Parameters-CTCH-ReconfRqstTDD</del>	<del>INTEGER ::= 155</del>
<del>id-PCH-ParametersItem-CTCH-SetupRqstFDD</del>	<del>INTEGER ::= 156</del>
<del>id-PCH-ParametersItem-CTCH-SetupRqstTDD</del>	<del>INTEGER ::= 157</del>

<del>id-PCH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 158</del>
<del>id-PICH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 159</del>
<del>id-PD</del>	<del>INTEGER ::= 160</del>
<del>id-PDSCH-Information-AddListIE-PSCH-ReconfRqst</del>	<del>INTEGER ::= 161</del>
<del>id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst</del>	<del>INTEGER ::= 162</del>
<del>id-PDSCHSets-AddList-PSCH-ReconfRqst</del>	<del>INTEGER ::= 163</del>
<del>id-PDSCHSets-DeleteList-PSCH-ReconfRqst</del>	<del>INTEGER ::= 164</del>
<del>id-PDSCHSets-ModifyList-PSCH-ReconfRqst</del>	<del>INTEGER ::= 165</del>
<del>id-PICH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 166</del>
<del>id-PICH-Parameters-CTCH-ReconfRqstTDD</del>	<del>INTEGER ::= 168</del>
<del>id-PowerAdjustmentType</del>	<del>INTEGER ::= 169</del>
<del>id-PRACH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 170</del>
<del>id-PRACH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 171</del>
<del>id-PRACHItem-CTCH-SetupRqstFDD</del>	<del>INTEGER ::= 172</del>
<del>id-PRACHItem-CTCH-SetupRqstTDD</del>	<del>INTEGER ::= 173</del>
<del>id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD</del>	<del>INTEGER ::= 175</del>
<del>id-PrimaryCCPCH-Information-Cell-SetupRqstFDD</del>	<del>INTEGER ::= 176</del>
<del>id-PrimaryCPICH-Information-Cell-ReconfRqstFDD</del>	<del>INTEGER ::= 177</del>
<del>id-PrimaryCPICH-Information-Cell-SetupRqstFDD</del>	<del>INTEGER ::= 178</del>
<del>id-PrimarySCH-Information-Cell-ReconfRqstFDD</del>	<del>INTEGER ::= 179</del>
<del>id-PrimarySCH-Information-Cell-SetupRqstFDD</del>	<del>INTEGER ::= 180</del>
<del>id-PrimaryScramblingCode</del>	<del>INTEGER ::= 181</del>
<del>id-ProcedureScopeType-DL-PC-Rqst</del>	<del>INTEGER ::= 182</del>
<del>id-SCH-Information-Cell-ReconfRqstTDD</del>	<del>INTEGER ::= 183</del>
<del>id-SCH-Information-Cell-SetupRqstTDD</del>	<del>INTEGER ::= 184</del>
<del>id-PUSCH-Information-AddListIE-PSCH-ReconfRqst</del>	<del>INTEGER ::= 185</del>
<del>id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst</del>	<del>INTEGER ::= 186</del>
<del>id-PUSCHSets-AddList-PSCH-ReconfRqst</del>	<del>INTEGER ::= 187</del>
<del>id-PUSCHSets-DeleteList-PSCH-ReconfRqst</del>	<del>INTEGER ::= 188</del>
<del>id-PUSCHSets-ModifyList-PSCH-ReconfRqst</del>	<del>INTEGER ::= 189</del>
<del>id-RACH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 190</del>
<del>id-RACH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 191</del>
<del>id-RACHItem-CTCH-SetupRsp</del>	<del>INTEGER ::= 192</del>
<del>id-RACHItem-CM-Rprt</del>	<del>INTEGER ::= 193</del>
<del>id-RACHItem-CM-Rqst</del>	<del>INTEGER ::= 194</del>
<del>id-RACHItem-CM-Rsp</del>	<del>INTEGER ::= 195</del>
<del>id-RACH-ParametersItem-CTCH-SetupRqstFDD</del>	<del>INTEGER ::= 196</del>
<del>id-RACH-ParameterItem-CTCH-SetupRqstTDD</del>	<del>INTEGER ::= 197</del>
<del>id-ReportCharacteristics</del>	<del>INTEGER ::= 198</del>
<del>id-Reporting-Object-RL-FailureInd</del>	<del>INTEGER ::= 199</del>
<del>id-Reporting-Object-RL-RestoreInd</del>	<del>INTEGER ::= 200</del>
<del>id-RL-ID</del>	<del>INTEGER ::= 201</del>
<del>id-RL-InformationItem-DM-Rprt</del>	<del>INTEGER ::= 202</del>
<del>id-RL-InformationItem-DM-Rqst</del>	<del>INTEGER ::= 203</del>
<del>id-RL-InformationItem-DM-Rsp</del>	<del>INTEGER ::= 204</del>
<del>id-RL-InformationItem-RL-AdditionRqstFDD</del>	<del>INTEGER ::= 205</del>
<del>id-RL-InformationItem-RL-DeletionRqst</del>	<del>INTEGER ::= 206</del>
<del>id-RL-InformationItem-RL-FailureInd</del>	<del>INTEGER ::= 207</del>
<del>id-RL-InformationItem-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 208</del>
<del>id-RL-InformationItem-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 209</del>
<del>id-RL-InformationItem-RL-RestoreInd</del>	<del>INTEGER ::= 210</del>

<del>id-RL-InformationItem-RL-SetupRqstFDD</del>	<del>INTEGER ::= 211</del>
<del>id-RL-InformationList-RL-AdditionRqstFDD</del>	<del>INTEGER ::= 212</del>
<del>id-RL-informationList-RL-DeletionRqst</del>	<del>INTEGER ::= 213</del>
<del>id-RL-InformationList-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 214</del>
<del>id-RL-InformationList-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 215</del>
<del>id-RL-InformationList-RL-SetupRqstFDD</del>	<del>INTEGER ::= 216</del>
<del>id-RL-InformationResponseItem-RL-AdditionRspFDD</del>	<del>INTEGER ::= 217</del>
<del>id-RL-InformationResponseItem-RL-ReconfReady</del>	<del>INTEGER ::= 218</del>
<del>id-RL-InformationResponseItem-RL-ReconfRsp</del>	<del>INTEGER ::= 219</del>
<del>id-RL-InformationResponseItem-RL-SetupRspFDD</del>	<del>INTEGER ::= 220</del>
<del>id-RL-InformationResponseList-RL-AdditionRspFDD</del>	<del>INTEGER ::= 221</del>
<del>id-RL-InformationResponseList-RL-ReconfReady</del>	<del>INTEGER ::= 222</del>
<del>id-RL-InformationResponseList-RL-ReconfRsp</del>	<del>INTEGER ::= 223</del>
<del>id-RL-InformationResponseList-RL-SetupRspFDD</del>	<del>INTEGER ::= 224</del>
<del>id-RL-InformationResponse-RL-AdditionRspTDD</del>	<del>INTEGER ::= 225</del>
<del>id-RL-InformationResponse-RL-SetupRspTDD</del>	<del>INTEGER ::= 226</del>
<del>id-RL-Information-RL-AdditionRqstTDD</del>	<del>INTEGER ::= 227</del>
<del>id-RL-Information-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 228</del>
<del>id-RL-Information-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 229</del>
<del>id-RL-Information-RL-SetupRqstTDD</del>	<del>INTEGER ::= 230</del>
<del>id-RLItem-DM-Rprt</del>	<del>INTEGER ::= 231</del>
<del>id-RLItem-DM-Rqst</del>	<del>INTEGER ::= 232</del>
<del>id-RLItem-DM-Rsp</del>	<del>INTEGER ::= 233</del>
<del>id-RLItem-RL-FailureInd</del>	<del>INTEGER ::= 234</del>
<del>id-RLItem-RL-RestoreInd</del>	<del>INTEGER ::= 235</del>
<del>id-RL-ReconfigurationFailureItem-RL-ReconfFailure</del>	<del>INTEGER ::= 236</del>
<del>id-RL-Set-InformationItem-DM-Rprt</del>	<del>INTEGER ::= 238</del>
<del>id-RL-SetItem-DM-Rqst</del>	<del>INTEGER ::= 239</del>
<del>id-RL-Set-InformationItem-DM-Rsp</del>	<del>INTEGER ::= 240</del>
<del>id-RL-Set-InformationItem-RL-FailureInd</del>	<del>INTEGER ::= 241</del>
<del>id-RL-Set-InformationItem-RL-RestoreInd</del>	<del>INTEGER ::= 242</del>
<del>id-RL-SetItem-DM-Rprt</del>	<del>INTEGER ::= 243</del>
<del>id-RL-SetItem-DM-Rsp</del>	<del>INTEGER ::= 244</del>
<del>id-RL-SetItem-RL-FailureInd</del>	<del>INTEGER ::= 245</del>
<del>id-RL-SetItem-RL-RestoreInd</del>	<del>INTEGER ::= 246</del>
<del>id-S-CCPCH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 247</del>
<del>id-S-CCPCH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 248</del>
<del>id-S-CPICH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 249</del>
<del>id-S-CPICH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 250</del>
<del>id-SCH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 251</del>
<del>id-SCH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 252</del>
<del>id-S-SCH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 253</del>
<del>id-S-SCH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 254</del>
<del>id-Secondary-CCPCHItem-CTCH-SetupRqstFDD</del>	<del>INTEGER ::= 255</del>
<del>id-Secondary-CCPCHItem-CTCH-SetupRqstTDD</del>	<del>INTEGER ::= 256</del>
<del>id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD</del>	<del>INTEGER ::= 257</del>
<del>id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD</del>	<del>INTEGER ::= 258</del>
<del>id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD</del>	<del>INTEGER ::= 259</del>
<del>id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD</del>	<del>INTEGER ::= 260</del>
<del>id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD</del>	<del>INTEGER ::= 261</del>
<del>id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD</del>	<del>INTEGER ::= 262</del>

<del>id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD</del>	<del>INTEGER ::= 263</del>
<del>id-SecondarySCH-Information-Cell-ReconfRqstFDD</del>	<del>INTEGER ::= 264</del>
<del>id-SecondarySCH-Information-Cell-SetupRqstFDD</del>	<del>INTEGER ::= 265</del>
<del>id-SegmentInformationListIE-SystemInfoUpdate</del>	<del>INTEGER ::= 266</del>
<del>id-ServiceImpactingItem-ResourceStatusInd</del>	<del>INTEGER ::= 267</del>
<del>id-SFN</del>	<del>INTEGER ::= 268</del>
<del>id-ShutdownTimer</del>	<del>INTEGER ::= 269</del>
<del>id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD</del>	<del>INTEGER ::= 270</del>
<del>id-Successful-RL-InformationRespItem-RL-SetupFailureFDD</del>	<del>INTEGER ::= 271</del>
<del>id-Successful-RL-InformationRespList-RL-AdditionFailureFDD</del>	<del>INTEGER ::= 272</del>
<del>id-Successful-RL-InformationRespList-RL-SetupFailureFDD</del>	<del>INTEGER ::= 273</del>
<del>id-SyncCase</del>	<del>INTEGER ::= 274</del>
<del>id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH</del>	<del>INTEGER ::= 275</del>
<del>id-T-Cell</del>	<del>INTEGER ::= 276</del>
<del>id-TimeSlotConfigurationList-Cell-ReconfRqstTDD</del>	<del>INTEGER ::= 277</del>
<del>id-TimeSlotConfigurationList-Cell-SetupRqstTDD</del>	<del>INTEGER ::= 278</del>
<del>id-TransmissionDiversityApplied</del>	<del>INTEGER ::= 279</del>
<del>id-UARFCNforNt</del>	<del>INTEGER ::= 280</del>
<del>id-UARFCNforNd</del>	<del>INTEGER ::= 281</del>
<del>id-UARFCNforNu</del>	<del>INTEGER ::= 282</del>
<del>id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD</del>	<del>INTEGER ::= 284</del>
<del>id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD</del>	<del>INTEGER ::= 285</del>
<del>id-UL-CCTrCH-InformationList-RL-SetupRqstTDD</del>	<del>INTEGER ::= 288</del>
<del>id-UL-DPCH-InformationItem-RL-AdditionRqstTDD</del>	<del>INTEGER ::= 289</del>
<del>id-UL-DPCH-InformationList-RL-AdditionRqstTDD</del>	<del>INTEGER ::= 290</del>
<del>id-UL-DPCH-InformationList-RL-SetupRqstTDD</del>	<del>INTEGER ::= 291</del>
<del>id-UL-DPCH-Information-RL-ReconfPrepFDD</del>	<del>INTEGER ::= 293</del>
<del>id-UL-DPCH-Information-RL-ReconfRqstFDD</del>	<del>INTEGER ::= 294</del>
<del>id-UL-DPCH-Information-RL-SetupRqstFDD</del>	<del>INTEGER ::= 295</del>
<del>id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD</del>	<del>INTEGER ::= 296</del>
<del>id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD</del>	<del>INTEGER ::= 297</del>
<del>id-Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD</del>	<del>INTEGER ::= 298</del>
<del>id-Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD</del>	<del>INTEGER ::= 299</del>
<del>id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD</del>	<del>INTEGER ::= 300</del>
<del>id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD</del>	<del>INTEGER ::= 301</del>
<del>id-USCH-information-AddList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 302</del>
<del>id-USCH-Information-AddList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 303</del>
<del>id-USCH-Information-DeleteList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 304</del>
<del>id-USCH-Information-DeleteList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 305</del>
<del>id-USCH-Information-ModifyList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 306</del>
<del>id-USCH-Information-ModifyList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 307</del>
<del>id-USCH-InformationResponseListIE-RL-AdditionRspTDD</del>	<del>INTEGER ::= 308</del>
<del>id-USCH-InformationResponseListIE-RL-SetupRspTDD</del>	<del>INTEGER ::= 309</del>
<del>id-USCH-InformationList-RL-SetupRqstTDD</del>	<del>INTEGER ::= 310</del>
<del>id-Active-Pattern-Sequence-Information</del>	<del>INTEGER ::= 315</del>
<del>id-AICH-ParametersListIE-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 316</del>
<del>id-AdjustmentRatio</del>	<del>INTEGER ::= 317</del>
<del>id-AllRLItem-DM-Rqst</del>	<del>INTEGER ::= 318</del>
<del>id-AllRLItem-Set-DM-Rqst</del>	<del>INTEGER ::= 319</del>
<del>id-AP-AICH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 320</del>
<del>id-AP-AICH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 321</del>

<del>id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 322</del>
<del>id-FACH-ParametersListIE-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 323</del>
<del>id-CauseLevel-PSCH-ReconfFailureTDD</del>	<del>INTEGER ::= 324</del>
<del>id-CauseLevel-RL-AdditionFailureFDD</del>	<del>INTEGER ::= 325</del>
<del>id-CauseLevel-RL-AdditionFailureTDD</del>	<del>INTEGER ::= 326</del>
<del>id-CauseLevel-RL-ReconfFailure</del>	<del>INTEGER ::= 327</del>
<del>id-CauseLevel-RL-SetupFailureFDD</del>	<del>INTEGER ::= 328</del>
<del>id-CauseLevel-RL-SetupFailureTDD</del>	<del>INTEGER ::= 329</del>
<del>id-CDCA-ICH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 330</del>
<del>id-CDCA-ICH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 331</del>
<del>id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 332</del>
<del>id-Closed-Loop-Timing-Adjustment-Mode</del>	<del>INTEGER ::= 333</del>
<del>id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 334</del>
<del>id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD</del>	<del>INTEGER ::= 335</del>
<del>id-CPCH-InformationItem-AuditRsp</del>	<del>INTEGER ::= 336</del>
<del>id-CPCH-InformationItem-ResourceStatusInd</del>	<del>INTEGER ::= 337</del>
<del>id-CPCHItem-CM-Rprt</del>	<del>INTEGER ::= 338</del>
<del>id-CPCHItem-CM-Rqst</del>	<del>INTEGER ::= 339</del>
<del>id-CPCHItem-CM-Rsp</del>	<del>INTEGER ::= 340</del>
<del>id-CPCHListItem-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 341</del>
<del>id-CPCH-Parameters-CTCH-SetupRsp</del>	<del>INTEGER ::= 342</del>
<del>id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD</del>	<del>INTEGER ::= 343</del>
<del>id-DCH-InformationResponseListIE-RL-ReconfReady</del>	<del>INTEGER ::= 344</del>
<del>id-DCH-InformationResponseListIE-RL-ReconfRep</del>	<del>INTEGER ::= 345</del>
<del>id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 346</del>
<del>id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 347</del>
<del>id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 348</del>
<del>id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 349</del>
<del>id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 350</del>
<del>id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 351</del>
<del>id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD</del>	<del>INTEGER ::= 352</del>
<del>id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 353</del>
<del>id-DL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 354</del>
<del>id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 355</del>
<del>id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 356</del>
<del>id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD</del>	<del>INTEGER ::= 357</del>
<del>id-DL-TPC-Pattern01Count</del>	<del>INTEGER ::= 358</del>
<del>id-DPCHConstant</del>	<del>INTEGER ::= 359</del>
<del>id-DSCH-InformationResponseListIE-RL-ReconfReady</del>	<del>INTEGER ::= 360</del>
<del>id-DSCH-InformationResponseListIE-RL-ReconfRep</del>	<del>INTEGER ::= 361</del>
<del>id-FACH-ParametersList-CTCH-SetupRsp</del>	<del>INTEGER ::= 362</del>
<del>id-GeneralCauseItem-PSCH-ReconfFailureTDD</del>	<del>INTEGER ::= 363</del>
<del>id-GeneralCauseItem-RL-AdditionFailureFDD</del>	<del>INTEGER ::= 364</del>
<del>id-GeneralCauseItem-RL-AdditionFailureTDD</del>	<del>INTEGER ::= 365</del>
<del>id-GeneralCauseItem-RL-ReconfFailure</del>	<del>INTEGER ::= 366</del>
<del>id-GeneralCauseItem-RL-SetupFailureFDD</del>	<del>INTEGER ::= 367</del>
<del>id-GeneralCauseItem-RL-SetupFailureTDD</del>	<del>INTEGER ::= 368</del>
<del>id-Limited-power-increase-information-Cell-SetupRqstFDD</del>	<del>INTEGER ::= 369</del>
<del>id-MeasurementAvailableItem-CommonMeasurementReport</del>	<del>INTEGER ::= 370</del>
<del>id-MeasurementnotAvailableItem-CommonMeasurementReport</del>	<del>INTEGER ::= 371</del>

~~id-MeasurementAvailableItem-DedicatedMeasurementReport INTEGER ::= 372~~  
~~id-MeasurementnotAvailableItem-DedicatedMeasurementReport INTEGER ::= 373~~  
~~id-PCH-Parameters-CTCH-SetupRsp INTEGER ::= 374~~  
~~id-PCH-ParametersItem-CTCH-ReconfRqstFDD INTEGER ::= 375~~  
~~id-PCPCH-InformationItem-AuditRsp INTEGER ::= 376~~  
~~id-PCPCH-InformationItem-ResourceStatusInd INTEGER ::= 377~~  
~~id-PCPCHItem-CTCH-SetupRqstFDD INTEGER ::= 378~~  
~~id-PCPCH-ParametersList-CTCH-ReconfRqstFDD INTEGER ::= 379~~  
~~id-PICH-ParametersItem-CTCH-ReconfRqstFDD INTEGER ::= 380~~  
~~id-PRACHConstant INTEGER ::= 381~~  
~~id-PRACHListIE-CTCH-ReconfRqstFDD INTEGER ::= 382~~  
~~id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD INTEGER ::= 383~~  
~~id-PUSCHConstant INTEGER ::= 384~~  
~~id-RACH-Parameters-CTCH-SetupRsp INTEGER ::= 385~~  
~~id-RLSpecificCauseItem-RL-AdditionFailureFDD INTEGER ::= 386~~  
~~id-RLSpecificCauseItem-RL-AdditionFailureTDD INTEGER ::= 387~~  
~~id-RLSpecificCauseItem-RL-ReconfFailure INTEGER ::= 388~~  
~~id-RLSpecificCauseItem-RL-SetupFailureFDD INTEGER ::= 389~~  
~~id-RLSpecificCauseItem-RL-SetupFailureTDD INTEGER ::= 390~~  
~~id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD INTEGER ::= 391~~  
~~id-SetSpecificCauseItem-PSCH-ReconfFailureTDD INTEGER ::= 392~~  
~~id-Synchronisation-Configuration-Cell-ReconfRqst INTEGER ::= 393~~  
~~id-Synchronisation-Configuration-Cell-SetupRqst INTEGER ::= 394~~  
~~id-Transmission-Gap-Pattern-Sequence-Information INTEGER ::= 395~~  
~~id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD INTEGER ::= 396~~  
~~id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD INTEGER ::= 397~~  
~~id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD INTEGER ::= 398~~  
~~id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD INTEGER ::= 399~~  
~~id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD INTEGER ::= 400~~  
~~id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD INTEGER ::= 401~~  
~~id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD INTEGER ::= 402~~  
~~id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD INTEGER ::= 403~~  
~~id-UL-DPCH-InformationDeleteListIE-RL-ReconfPrepTDD INTEGER ::= 404~~  
~~id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD INTEGER ::= 405~~  
~~id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD INTEGER ::= 406~~  
~~id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD INTEGER ::= 407~~  
~~id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD INTEGER ::= 408~~  
~~id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD INTEGER ::= 409~~  
~~id-USCH-InformationResponseListIE-RL-ReconfReady INTEGER ::= 410~~  
~~id-USCH-InformationResponseListIE-RL-ReconfRsp INTEGER ::= 411~~

END

## CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**25.433 CR 199r2**

Current Version: 3.2.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: TSG RAN #9

list expected approval meeting # here ↑

for approval  
for information

strategic  
non-strategic

(for SMG  
use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:**

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

**Source:**

R-WG3

**Date:**

22/08/00

**Subject:**

Correction of Burst Type IE and Midamble Shift IE in TDD messages

**Work item:**

**Category:**

(only one category  
shall be marked  
with an X)

- F Correction
- A Corresponds to a correction in an earlier release
- B Addition of feature
- C Functional modification of feature
- D Editorial modification

**Release:**

- Phase 2
- Release 96
- Release 97
- Release 98
- Release 99
- Release 00

**Reason for change:**

This CR proposes to :

1. Merge *Burst Type IE* and *Midamble Shift IE* in order to align RAN WG3 specifications with RAN WG2 specifications in TS25.331.
2. Introduces a choice for midamble mode in order to align with RAN WG1 specifications in TS25.221.
3. A third burst type for UL TDD transmissions has been introduced in WG1 for handover between unsynchronised cells. The IE "Burst Type" is extended to support configuration of this burst type in NodeB.

**Clauses affected:**

8.3.2, 9.1, 9.2, 9.3.3, 9.3.4

**Other specs**

Other 3G core specifications

→ List of CRs: TS 25.423 CR169r1  
TS 25.331 CR480  
TS 25.221 CR031

**affected:**

Other GSM core  
specifications  
MS test specifications  
BSS test specifications  
O&M specifications

→ List of CRs:  
→ List of CRs:  
→ List of CRs:  
→ List of CRs:

**Other comments:**

This revised CR includes and therefore supersedes the changes proposed in CR204 to 25.433 (inclusion of burst type 3).

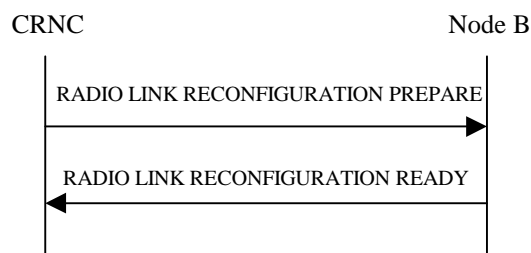
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of all Radio Links related to one UE-UTRAN connection within a Node B.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.2.2 Successful Operation



**Figure 30: Synchronised Radio Link Reconfiguration procedure, Successful Operation**

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE 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.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with 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.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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.



**DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to 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 and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Add* IE with multiple *DCH specific Info* IEs then, 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.

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* 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]. 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].

[TDD - For USCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24].]

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

**DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

**Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the Node B shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Downlink Channelisation Code* IEs, the Node B shall apply the new Downlink Channelisation Code(s) in the new configuration.]

[FDD- If the RADIO LINK RECONFIGURATION PREPARE contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

[FDD - The Node B shall use the *TFCS* IE for the UL 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 - The Node B shall use the *TFCS* IE for the DL 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 RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCH Structure IE*, group the Node B shall set the new Uplink DPCCH Structure to the new configuration.]

If the RADIO LINK RECONFIGURATION PREPARE includes the *Maximum DL Power IE*, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target IE*, the Node B shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

If the RADIO LINK RECONFIGURATION PREPARE 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase IE* and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase IE* and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

#### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any of *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 RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be added , the Node B shall include this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be deleted, the Node B shall remove this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be modified, and includes any of *TDD Channelisation Code IE*, ~~*Burst Type IE*~~, *Midamble shift and Burst Type 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 DPCH are still applicable.]

#### [TDD – UL/DL CCTrCH Addition]

[TDD -If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be added , the Node B shall include this CCTrCH in the new configuration.]

[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.]

#### SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication IE* set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity IE* and *SSDT Cell Identity Length IE* in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication IE* set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]

#### DSCH [TDD – and/or USCH] Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes DSCH information for the DSCHs to be added/modified/deleted 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. The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH code mapping IE* then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes. ]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[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 NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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 exist a Prepared Reconfiguration, as defined in chapter 3.1.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub DCH-information-response IE group shall be included only for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, the RL Information Response IE group shall be included only for one of the combined RLs.

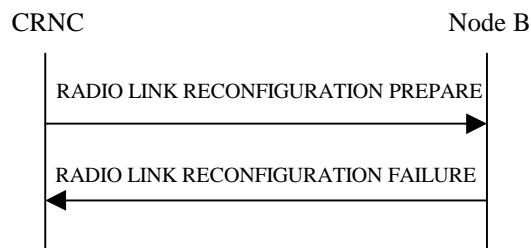
#### Compressed Mode Preparation:

[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.]

#### RL Information:

[TDD - If the *DL Time Slot ISCP* IE is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]

### 8.3.2.3 Unsuccessful Operation



**Figure 31: Synchronised Radio Link Reconfiguration procedure, Unsuccessful Operation**

If the Node B cannot reserve the necessary resources for all the new DCHs of one set of coordinated DCHs requested to be added, it shall regard the Synchronised Radio Link Reconfiguration procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration 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.

If more than one 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 RECONFIGURATION FAILURE message.

[FDD – If the Node B cannot provide the requested CM pattern sequences, the Node B shall regard the Radio Link Reconfiguration Procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

Typical cause values are as follows:

#### Radio Network Layer Cause

- RL Already Activated/allocated
- Invalid CM Settings.

**Transport Layer Cause**

- Transport Resources Unavailable

**Protocol Cause**

- Semantic error

**Miscellaneous Cause**

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

### 8.3.2.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of coordinated DCHs is requested to be deleted, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

## 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>CHOICE common physical channel to be configured</b>					YES	ignore
>Secondary CCPCH					YES	reject
<b>&gt;Secondary CCPCH</b>		1				
>>Common Physical Channel ID	M		9.2.1.13		–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to [7]: s-CCPCH,k	–	
>>DL Scrambling Code	M		9.2.2.13		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.54	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.43		–	
>>>TFCI Presence	C – SlotFormat		9.2.1.57		–	
>>Multiplexing Position	M		9.2.2.23		–	
<b>&gt;&gt;Power Offset Information</b>		1			–	
>>>PO1	M		Power Offset	Power offset for the TFCI bits	–	
>>>PO3	M		Power Offset	Power offset for the pilot bits	–	
>>STTD Indicator	M		9.2.2.47		–	
<b>&gt;&gt;FACH Parameters</b>	C-choiceCh	0..<maxnoofFACHs>			GLOBAL	reject
>>>Common transport channel ID	M		9.2.1.14		–	
>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>ToAWS	M		9.2.1.61		–	
>>>ToAWE	M		9.2.1.60		–	
>>>Max FACH Power	M		DL Power 9.2.1.21	Maximum allowed power on the FACH.	–	
<b>&gt;&gt;PCH Parameters</b>	C-choiceCh	0..1			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>ToAWS	M		9.2.1.61		–	
>>>ToAWE	M		9.2.1.60		–	

>>>PCH Power	M		DL Power 9.2.1.21		-	
<b>&gt;&gt;&gt;PICH Parameters</b>		1			-	
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>DL Scrambling Code	M		9.2.2.13		-	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		-	
>>>>PICH Power	M		DL Power 9.2.1.21	Power to be used on the PICH.	-	
>>>>PICH Mode	M		9.2.2.26	Number of PI per frame	-	
>>>>STTD Indicator	M		9.2.2.48		-	
>PRACH					YES	reject
<b>&gt;PRACH</b>		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		-	
<b>&gt;&gt;Allowed Slot Format Information</b>		1..<MaxnoofSlotFormatsPRACH>			-	
>>>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		-	
<b>&gt;&gt;RACH Parameters</b>		1			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>Transport Format Set	M		9.2.1.59	For the UL.	-	
<b>&gt;&gt;&gt;AICH Parameters</b>		1			-	
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>DL Scrambling Code	M		9.2.2.13		-	
>>>>AICH Transmission Timing	M		9.2.2.1		-	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		-	
>>>>AICH Power	M		DL Power 9.2.1.21		-	
>>>>STTD Indicator	M		9.2.2.47		-	
>PCPCHes					YES	Reject
<b>&gt;&gt;CPCH Parameters</b>		1			-	
>>>Common Transport Channel ID	M				-	
>>>Transport Format Set	M			For the UL.	-	
>>>AP Preamble Scrambling Code	M		CPCH Scrambling Code Number		-	
>>>CD Preamble	M		CPCH		-	

Scrambling Code			Scrambling Code Number			
>>>TFCS	M			For the UL	-	
>>>CD Signatures	O		Preamble Signatures	Note: When not present, all CD signatures are to be used.	-	
>>>CD Sub Channel Numbers	C-CDSig				-	
>>>Puncture Limit	M			For the UL	-	
>>>CPCH UL DPCCH Slot Format	M			For UL CPCH message control part	-	
>>>UL SIR	M		UL SIR		-	
>>>Initial DL transmission Power	M		DL Power		-	
>>>Maximum DL Power	M		DL Power		-	
>>>Minimum DL Power	M		DL Power		-	
>>>PO2	M		Power Offset	Power offset for the TPC bits	-	
>>>PO3	M		Power Offset	Power offset for the pilot bits	-	
>>>FDD TPC DL Step Size	M				-	
>>>N_Start_Message	M				-	
>>>N_EOT	M				-	
>>>Channel Assignment Indication	M				-	
>>>CPCH Allowed Total Rate	M				-	
>>> <b>PCPCH Channel Information</b>		<i>1..&lt;maxnoofPCPCHs&gt;</i>			-	
>>>>Common Physical Channel ID	M				-	
>>>>CPCH Scrambling Code Number	M			For UL PCPCH	-	
>>>>DL Scrambling Code	M			For DL CPCH message part	-	
>>>>FDD DL Channelisation Code Number	M			For DL CPCH message part	-	
>>>>PCP Length	M				-	
>>>> <b>UCSM Information</b>	C-NCA	<i>1</i>			-	
>>>>>Min UL Channelisation Code Length	M				-	
>>>>>NF_max	M				-	
>>>>> <b>Channel</b>		<i>0..&lt;max&gt;</i>			-	

<b>Request Parameters</b>		<i>xAPSig Num&gt;</i>				
>>>>>AP Preamble Signature	M				-	
>>>>>AP Sub Channel Number	O				-	
<b>&gt;&gt;&gt;VCAM Mapping Information</b>	C-CA	<i>1..&lt;max noofL en&gt;</i>		Refer to TS [18]	-	
>>>>Min UL Channelisation Code Length	M				-	
>>>>NF_max	M				-	
>>>>Max Number of PCPCHes	M				-	
<b>&gt;&gt;&gt;&gt;SF Request Parameters</b>		<i>1..&lt;max APSig Num&gt;</i>			-	
>>>>>AP Preamble Signature	M				-	
>>>>>AP Sub Channel Number	O				-	
<b>&gt;&gt;&gt;AP-AICH Parameters</b>		<i>1</i>			-	
>>>>>Common Physical Channel ID	M				-	
>>>>>DL Scrambling Code	M				-	
>>>>>FDD DL Channelisation Code Number	M				-	
>>>>>AP-AICH Power	M		DL Power		-	
>>>>>CSICH Power	M		DL Power	For CSICH bits at end of AP-AICH slot	-	
>>>>>STTD Indicator	O				-	
<b>&gt;&gt;&gt;CD/CA-ICH Parameters</b>		<i>1</i>			-	
>>>>>Common Physical Channel ID	M				-	
>>>>>DL Scrambling Code	M				-	
>>>>>FDD DL Channelisation Code Number	M				-	
>>>>>CD/CA-ICH Power	M		DL Power		-	
>>>>>STTD Indicator	O				-	

Condition	Explanation
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
ChoiceCh	One of the channels FACH or PCH or both must be present.
CDSig	The IE may be present if the Available CD Signatures is present.
CA	The IE must be present if the Channel Assignment Indication is set to 'CA Active'.
NCA	The IE must be present if the Channel Assignment Indication is set to 'CA Inactive'.



Range bound	Explanation
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH.
<i>MaxnoofPCPCHs</i>	Maximum number of PCPCHs for a CPCH
<i>MaxnoofLen</i>	Maximum number of Min UL Channelisation Code Length
<i>MaxnoofSlotFormatsPRACH</i>	Maximum number of SF for a PRACH
<i>MaxAPSigNum</i>	Maximum number of AP Signatures.

### 9.1.3.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
CHOICE <i>common physical channels to be configured</i>					YES	ignore
<i>Secondary CCPCHs</i>					YES	reject
>CCTrCH ID	M		9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>TFCS	M		9.2.1.5	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>Secondary CCPCH		<i>1..&lt;maxnoofS - CCPCHs&gt;</i>			GLOBAL	reject
>>Common physical channel ID	M		9.2.1.13		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
>>Time Slot	M		9.2.3.23		–	
>>Burst Type	M		9.2.3.2	Long or short midamble	–	
>>Midamble shift and Burst Type	M		9.2.3.7		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>S-CCPCH Power	M		DL Power 9.2.1.21		–	
>>FACH	C	<i>0..&lt;maxnoofS - CCPCHs&gt;</i>			GLOBAL	reject

	ChoiceCh	<i>xnoofF ACHs</i> >				
>>>Common transport channel ID	M		9.2.1.61		-	
>>>Transport Format Set	M		9.2.1.59	For the DL.	-	
>>>ToAWS	M		9.2.1.61		-	
>>>ToAWE	M		9.2.1.60		-	
<b>&gt;&gt;PCH</b>	C ChoiceCh	0..1			GLOBAL	reject
>>>Common transport channel ID	M		9.2.1.13		-	
>>>Transport Format Set	M		9.2.1.59	For the DL.	-	
>>>ToAWS	M		9.2.1.61		-	
>>>ToAWE	M		9.2.1.60		-	
<b>&gt;&gt;&gt;PICH Parameters</b>		1			-	
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>TDD Channelisation Code	M		9.2.3.19		-	
>>>>Time Slot	M		9.2.3.23		-	
>>>>Burst type	Ø		9.2.3.2		-	
>>>>Midamble shift <u>and</u> Burst Type	M		9.2.3.7		-	
>>>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>>>Repetition period	M		9.2.3.16		-	
>>>>Repetition length	M		9.2.3.15		-	
>>>>Paging Indicator Length	M		9.2.3.8		-	
>>>>PICH Power	M		DL Power 9.2.1.21		YES	reject
<i>PRACH</i>						
<b>&gt;PRACH</b>	M	1				
>>Common physical channel ID	M		9.2.1.13			
>>Time Slot	M		9.2.3.23			
>>TDD Channelisation Code	M		9.2.3.19			
>>Max PRACH Midamble Shifts	O		9.2.3.6			
>>PRACH Midamble	M		9.2.3.14			
<b>&gt;&gt;RACH</b>					-	
>>>Common transport channel ID	M		9.2.1.13		-	

Condition	Explanation
<i>ChoiceCh</i>	One of the channels FACH or PCH or both must be present.

Range bound	Explanation
<i>MaxnoofS-CCPCHs</i>	Maximum number of Secondary CCPCHs per CTrCH.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs that can be defined in a cell.
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH.

## 9.1.4 COMMON TRANSPORT CHANNEL SETUP RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>FACH Parameters</b>		<i>0..maxnoofFACHs</i>		The FACH Parameters may be combined with PCH Parameters	GLOBAL	ignore
>Common Transport Channel ID	M		9.2.1.14		–	
>Binding ID	M		9.2.1.4		–	
>Transport layer address	M		9.2.1.63		–	
<b>PCH Parameters</b>		<i>0..1</i>		The PCH Parameters may be combined with FACH Parameters	GLOBAL	ignore
>Common transport channel ID	M		9.2.1.14		–	
>Binding ID	M		9.2.1.4		–	
>Transport layer address	M		9.2.1.63		–	
<b>RACH parameters</b>		<i>0..1</i>		The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters	GLOBAL	ignore
>Common transport channel ID	M		9.2.1.14		–	
>Binding ID	M		9.2.1.4		–	
>Transport layer address	M		9.2.1.63		–	
<b>CPCH parameters</b>		<i>0..1</i>		The CPCH Parameters shall not be combined with FACH Parameters or PCH Parameters or RACH Parameters	GLOBAL	ignore
>Common transport channel ID	M				–	
>Binding ID	M				–	
>Transport layer address	M				–	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH[FDD] / a group of Secondary CCPCHs [TDD].

### 9.1.5 COMMON TRANSPORT CHANNEL SETUP FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	–
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	–
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

### 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>CHOICE common physical channel to be reconfigured</b>					YES	reject
> <i>Secondary CCPCH</i>					YES	reject
>> <b>FACH parameters</b>		0..<maxFACHCell>			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Max FACH Power	O		DL Power 9.2.1.21	Maximum allowed power on the FACH.	–	
>>>ToAWS	O		9.2.1.61		–	
>>>ToAWE	O		9.2.1.60		–	
>> <b>PCH Parameters</b>		0..1			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>PCH Power	O		DL Power 9.2.1.21	Power to be used on the PCH.	–	
>>>ToAWS	O		9.2.1.61		–	
>>>ToAWE	O		9.2.1.60		–	
>> <b>PICH Parameters</b>		0..1			YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>PICH Power	M		DL Power 9.2.1.21	Power to be used on the PICH.	–	
> <i>PRACH</i>					YES	reject
>> <b>PRACH Parameters</b>		0..<MaxPRACHCell>			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Preamble Signatures	M		9.2.2.31		–	
>>> <b>Allowed Slot Format Information</b>		0..<Maxno ofSlotFormatsPRACH>			–	
>>>>RACH Slot Format	M		9.2.2.37		–	
>>>>RACH Sub Channel Numbers	O		9.2.2.38		–	
>> <b>AICH Parameters</b>		0..<MaxPRACHCell>			GLOBAL	reject

		<i>ACHCell</i> >				
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>AICH Power	M		DL Power 9.2.1.21	Power to be used on the AICH.	–	
> <i>CPCH</i>					YES	reject
>> <b>CPCH Parameters</b>		<i>0..&lt;maxno ofCPCHs&gt;</i>			GLOBAL	reject
>>>Common Transport Channel ID	M				–	
>>>UL SIR	O				–	
>>>Initial DL transmission Power	O		DL Power		–	
>>>Maximum DL Power	O		DL Power		–	
>>>Minimum DL Power	O		DL Power		–	
>> <b>AP-AICH Parameters</b>		<i>0..&lt;maxno ofCPCHs&gt;</i>			GLOBAL	reject
>>>Common Physical Channel ID	M				–	
>>>AP-AICH Power	M		DL Power		–	
>>>CSICH Power	O		DL Power	For CSICH bits at end of AP-AICH slot	–	
>> <b>CD/CA-ICH Parameters</b>		<i>0..&lt;maxno ofCPCHs&gt;</i>			GLOBAL	reject
>>>Common Physical Channel ID	M				–	
>>>CD/CA-ICH Power	M		DL Power		–	

Range bound	Explanation
<i>MaxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<i>MaxnoofCPCHs</i>	Maximum number of CPCHs that can be defined in a Cell
MaxPRACHCell	Maximum number of PRACHs and AICHs that can be defined in a Cell
<i>MaxnoofSlotFormatsPRACH</i>	Maximum number of SF for a PRACH

9.1.6.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>Secondary CCPCH parameters</b>		0 .. 1			YES	reject

>CCTrCH ID	M		9.2.3.3	For DL CCTrCH supporting one or several Secondary CCPCHs	–	
>Secondary CCPCHs to be configured		0..<MaxnoofS CCPCHs>			GLOBAL	reject
>>Common physical channel ID	M		9.2.1.13		–	
>>S-CCPCH Power	M		9.2.1.21	DL power	–	
<b>PICH Parameters</b>		0 .. 1			YES	reject
>Common physical channel ID	M		9.2.1.13		–	
>PICH Power	M		9.2.1.21		–	
<b>FACH parameters</b>		0..<Maxno ofFACHs>			GLOBAL	reject
>Common Transport Channel ID	M		9.2.1.14		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>PCH parameters</b>		0 .. 1			GLOBAL	reject
>Common Transport Channel ID	M		9.2.1.14		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	

Range bound	Explanation
<i>MaxFACHCell</i>	Maximum number of FACHs that can be repeated in a Cell

### 9.1.7 COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

### 9.1.8 COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	O		9.2.1.17		YES	ignore

### 9.1.9 COMMON TRANSPORT CHANNEL DELETION REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Common Physical Channel ID	M		9.2.1.13	Indicates the Common Physical Channel for which the Common Transport Channels (together with the Common Physical Channel) shall be deleted.	YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject

### 9.1.10 COMMON TRANSPORT CHANNEL DELETION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore



### 9.1.11 BLOCK RESOURCE REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Blocking Priority Indicator	M		9.2.1.5		YES	reject
<b>Shutdown Timer</b>	C- <i>BlockNormal</i>				YES	reject

Condition	Explanation
BlockNormal	The information element is present when the Blocking Priority Indicator IE indicates 'Normal Priority'.

### 9.1.12 BLOCK RESOURCE RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

### 9.1.13 BLOCK RESOURCE FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	O		9.2.1.17		YES	ignore

### 9.1.14 UNBLOCK RESOURCE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	ignore

### 9.1.15 AUDIT REQUIRED INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	

## 9.1.16 AUDIT REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	

## 9.1.17 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>Node B Information</b>		1				
>DL or Global Capacity Credit	M		9.2.2.12			
>UL Capacity Credit	O		9.2.2.60			
>Common Channels Capacity Consumption Law	M		9.2.2.3			
>Dedicated Channels Capacity Consumption Law	M		9.2.2.6			
<b>Cell Information</b>		0.. < maxCellin NodeB >			EACH	ignore
>C-ID	M		9.2.1.9		–	
>Configuration Generation ID	M		9.2.1.16			
>Resource Operational State	M		9.2.1.52		–	
>Availability Status	M		9.2.1.2		–	
>Local Cell ID	M		9.2.1.38	The local cell that the cell is configured on		
>Maximum DL Power Capability	FFS		9.2.1.39		–	
>Minimum Spreading Factor	FFS		9.2.1.47		–	
<b>&gt;Primary SCH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;Secondary SCH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;Primary CPICH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;Secondary CPICH Information</b>		0..<maxSC PICHCell>			EACH	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	

>>Availability Status	M		9.2.1.2		–	
<b>&gt;Primary CCPCH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;BCH Information</b>		0..1			YES	ignore
>>Common Transport Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;Secondary CCPCH Information</b>		0..<maxSC CPCHCell >			EACH	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;PCH Information</b>		0..1			EACH	ignore
>>Common Transport Channel ID	M		9.2.1.14		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;PICH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;FACH Information</b>		0..<maxFA CHCell>			EACH	ignore
>>Common Transport Channel ID	M		9.2.1.14		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;PRACH Information</b>		0..<maxPR ACHCell>			EACH	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;RACH Information</b>		0..<maxRA CHCell>			EACH	ignore
>>Common Transport Channel ID	M		9.2.1.14		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;AICH Information</b>		0..<maxRA CHCell>			EACH	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;PCPCH Information</b>		0..<maxPC			EACH	ignore

		<i>PCHCell</i> >				
>>Common Physical Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;CPCH Information</b>		<i>0..&lt;maxCPCHCell&gt;</i>			EACH	ignore
>>Common Transport Channel ID	M				–	
>>Resource Operational State	M				–	
>>Availability Status	M				–	
<b>&gt;AP-AICH Information</b>		<i>0..&lt;maxCPCHCell&gt;</i>			EACH	ignore
>>Common Physical Channel ID	M					
>>Resource Operational State	M					
>>Availability Status	M					
<b>&gt;CD/CA-ICH Information</b>		<i>0..&lt;maxCPCHCell&gt;</i>			EACH	ignore
>>Common Physical Channel ID	M					
>>Resource Operational State	M					
>>Availability Status	M					
<b>&gt;SCH Information</b>		<i>0..1</i>			YES	ignore
>>Common Physical Channel ID	M		9.2.1.14		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>Communication Control Port Information</b>		<i>0..&lt;maxCCPi nNodeB&gt;</i>			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		–	
<b>Local Cell Information</b>		<i>0..&lt;maxLocalCellinNodeB&gt;</i>			EACH	ignore
>Local Cell ID	M		9.2.1.38		–	
>DL or Global Capacity Credit	M		9.2.2.12			
>UL Capacity Credit	O		9.2.2.60			
>Common Channels Capacity Consumption Law	M		9.2.2.3			
>Dedicated Channels Capacity Consumption Law	M		9.2.2.6			
>Maximum DL Power Capability	O		9.2.1.39		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
MaxCellinNodeB	Maximum number of Cell that can be configured in Node B
MaxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
MaxCPCHCell	Maximum number of CPCHes that can be defined in a Cell
MaxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
MaxPCPCHCell	Maximum number of PCPCHes that can be defined in a Cell
MaxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.
MaxSCCPCHCell	Maximum number of Secondary CCPCH that can be defined in a Cell.
MaxFACHCell	Maximum number of FACHes that can be defined in a Cell

### 9.1.18 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	reject
Common Measurement Object Type	M		9.2.1.10		YES	reject
CHOICE Common Measurement Object Type					YES	ignore
>"Cell"					YES	reject
>>C-ID	M		9.2.1.9		–	
>>Time Slot	O		9.2.3.23	TDD only	–	
>"RACH"					YES	reject
>>C-ID	M		9.2.1.9		–	
>>Common transport channel ID	M		9.2.1.14		–	
>"CPCH"				FDD only	YES	reject
>>C-ID	M				–	
>>Common transport channel ID	M				–	
>>Spreading Factor	O		Minimum UL Channelisation Code Length		–	
Common Measurement Type	M		9.2.1.11		YES	reject
Measurement Filter Coefficient	O		9.2.1.41		YES	reject
Report Characteristics	M		9.2.1.51		YES	reject

## 9.1.19 COMMON MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore
CHOICE Common Measurement Object Type				Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>"Cell"					YES	ignore
>>Common Measurement value	M		9.2.1.12		–	
>"RACH"					YES	ignore
>>Common Measurement Value	M		9.2.1.12		–	
>"CPCH"				FDD only	YES	Ignore
>>Common Measurement Value	M				–	
SFN	O			Common Measurement Time Reference	YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.20 COMMON MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.21 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore
CHOICE Common Measurement Object Type				Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>"Cell"					YES	ignore
>>CHOICE Measurement Availability Indicator						
>>>"Measurement Available"					YES	ignore
>>>Common Measurement value	M		9.2.1.12		–	
>>>"Measurement not Available"			NULL		YES	ignore
>"RACH"					YES	ignore
>>CHOICE Measurement Availability Indicator						
>>>"Measurement Available"					YES	ignore
>>>Common Measurement Value	M		9.2.1.12		–	
>>>"Measurement not Available"			NULL		YES	ignore
>"CPCH"				FDD only	YES	Ignore
>>Common Measurement Value	M				–	
SFN	O			Common Measurement Time Reference	YES	ignore

## 9.1.22 COMMON MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore



### 9.1.23 COMMON MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore

### 9.1.24 CELL SETUP REQUEST

#### 9.1.24.1 FDD Message

IE/Group Name	Presence	Range	IE type and Reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Local Cell Id	M		9.2.1.38		YES	reject
C-Id	M		9.2.1.9		YES	reject
Configuration Generation Id	M		9.2.1.16		YES	reject
T Cell	M		9.2.2.49		YES	reject
UARFCN	M		9.2.1.65	Corresponds to Nu [14]	YES	reject
UARFCN	M		9.2.1.65	Corresponds to Nd [14]	YES	reject

Maximum transmission power	M		9.2.1.40		YES	reject
Closed Loop Timing Adjustment Mode	O				YES	reject
Primary scrambling code	M		9.2.2.34		YES	reject
<b>Synchronisation Configuration</b>		1			YES	reject
>N_INSYNC_IND	M				–	
>N_OUTSYNC_IND	M				–	
>T_RLFAILURE	M				–	
DL TPC pattern 01 count	M				YES	reject
<b>Primary SCH Information</b>		1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>Primary SCH Power	M		DL Power 9.2.1.21		–	
>TSTD Indicator	M		9.2.1.64		–	
<b>Secondary SCH Information</b>		1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>Secondary SCH power	M		DL Power 9.2.1.21		–	
>TSTD Indicator	M		9.2.1.64		–	
<b>Primary CPICH Information</b>		1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>Primary CPICH power	M		9.2.2.33		–	
>Transmit Diversity Indicator	M		9.2.2.53		–	
<b>Secondary CPICH Information</b>		0..<maxSC PICHCell>			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>DL Scrambling code	M		9.2.2.13		–	
>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>Secondary CPICH Power	M		DL Power 9.2.1.21		–	
>Transmit Diversity Indicator	M		9.2.2.53		–	
<b>Primary CCPCH Information</b>		1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
<b>&gt;BCH Information</b>		1			–	
>>Common Transport Channel ID	M		9.2.1.14		–	
>>BCH Power	M		DL Power 9.2.1.21		–	
>STTD Indicator	M		9.2.2.47		–	
<b>Limited power increase information</b>		1			YES	reject
>Power_Raise_Limit	M				–	
>DL_power_averaging_window_size	M				–	

Range bound	Explanation
MaxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.

## 9.1.24.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Local Cell Id	M		9.2.1.38		YES	reject
C-Id	M		9.2.1.9		YES	reject
Configuration Generation Id	M		9.2.1.16		YES	reject
UARFCN	M		9.2.1.65	Corresponds to Nt [15]	YES	reject
Cell Parameter ID	M		9.2.3.4		YES	reject
Maximum Transmission Power	M		9.2.1.40		YES	reject
Transmission Diversity Applied	M		9.2.3.26	On DCHs	YES	reject
Sync Case	M		9.2.3.18		YES	reject
<b>Synchronisation Configuration</b>		1			YES	reject
>N_INSYNC_IND	M				–	
>N_OUTSYNC_IND	M				–	
>T_RLFAILURE	M				–	
DPCH Constant Value	M		Constant Value		YES	reject
PUSCH Constant Value	M		Constant Value		YES	reject
PRACH Constant Value	M		Constant Value		YES	reject
<b>SCH Information</b>		1			YES	reject
>Common physical channel ID	M		9.2.1.13		–	
>CHOICE Sync Case						
>>Case 1					YES	reject
>>>Time Slot	M		9.2.3.23		–	
>>Case 2					YES	reject
>>>SCH Time Slot	M		9.2.3.17		–	
>SCH Power	M		DL Power 9.2.1.21		–	
>TSTD Indicator	M		9.2.1.64		–	
<b>PCCPCH Information</b>		1			YES	reject
>Common physical channel ID	M		9.2.1.13		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.3.16		–	
>Repetition Length	M		9.2.3.15		–	
>PCCPCH Power	M		9.2.3.9		–	
>Block STTD Indicator	M		9.2.3.1		–	
<b>Time Slot Configuration</b>		1 .. 15			GLOBAL	reject
>Time Slot	M		9.2.3.23		–	
>Time Slot Status	M		9.2.3.25		–	
>Time Slot Direction	M		9.2.3.24		–	

### 9.1.25 CELL SETUP RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

### 9.1.26 CELL SETUP FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.27 CELL RECONFIGURATION REQUEST

## 9.1.27.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation Id	M		9.2.1.16		YES	reject
Maximum transmission power	O		9.2.1.40		YES	reject
<b>Synchronisation Configuration</b>		0,1			YES	reject
>N_INSYNC_IND	M				–	
>N_OUTSYNC_IND	M				–	
>T_RLFAILURE	M				–	
<b>Primary SCH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>Primary SCH power	M		DL Power 9.2.1.21		–	
<b>Secondary SCH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>Secondary SCH power	M		DL Power 9.2.1.21		–	
<b>Primary CPICH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>Primary CPICH power	M		9.2.2.33		–	
<b>Secondary CPICH Information</b>		0..<maxSCPICHCell>			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>Secondary CPICH Power	M		DL Power 9.2.1.21		–	
<b>Primary CCPCH Information</b>		0,1			YES	reject
> <b>BCH Information</b>		1			–	
>>Common Transport Channel ID	M		9.2.1.14		–	
>>BCH Power	M		DL Power 9.2.1.21		–	

Range bound	Explanation
MaxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.

## 9.1.27.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-Id	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>Synchronisation Configuration</b>		0,1			YES	reject
>N_INSYNC_IND	M				–	
>N_OUTSYNC_IND	M				–	
>T_RLFAILURE	M				–	
<b>SCH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>SCH Power	M		DL Power 9.2.1.21		–	
<b>PCCPCH Information</b>		0,1			YES	reject
>Common Physical Channel ID	M		9.2.1.13		–	
>PCCPCH Power	M		9.2.3.9		–	
Maximum Transmission Power	O		9.2.1.40		YES	reject
DPCH Constant Value	O		Constant Value		YES	reject
PUSCH Constant Value	O		Constant Value		YES	reject
PRACH Constant Value	O		Constant Value		YES	reject
<b>Time Slot Configuration</b>		1..15			GLOBAL	reject
>Time Slot	M		9.2.3.23		–	
>Time Slot Status	M		9.2.3.25		–	
>Time Slot Direction	M		9.2.3.24		–	

## 9.1.28 CELL RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.29 CELL RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	O		9.2.1.17		YES	ignore

### 9.1.30 CELL DELETION REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject

### 9.1.31 CELL DELETION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.32 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
Indication Type	M		9.2.1.36		YES	ignore
CHOICE Indication Type					YES	ignore
>"No Failure"					YES	ignore
<b>&gt;&gt;Node B Information</b>		1				
>>>DL or Global Capacity Credit	M		9.2.2.12			
>>>UL Capacity Credit	O		9.2.2.60			
>>>Common Channels Capacity Consumption Law	M		9.2.2.3			
>>>Dedicated Channels Capacity Consumption Law	M		9.2.2.6			
<b>&gt;&gt;Local Cell Information</b>		1.. <max LocalCellin NodeB >			EACH	ignore
>>>Local Cell ID	M		9.2.1.58		–	
>>>Add/Delete Indicator	M		9.2.1.1		–	
>>>DL or Global Capacity Credit	C-add		9.2.2.12			
>>>UL Capacity Credit	O		9.2.2.60			
>>>Common Channels Capacity Consumption Law	C-add		9.2.2.3			
>>>Dedicated Channels Capacity Consumption Law	C-add		9.2.2.6			
>>>Maximum DL Power Capability	M		9.2.1.39		–	
>"Service Impacting"					YES	ignore
<b>&gt;&gt;Node B Information</b>		0..1				
>>>DL or Global Capacity Credit	O		9.2.2.12			
>>>UL Capacity Credit	O		9.2.2.60			
<b>&gt;&gt;Local Cell Information</b>		0.. <maxLocal CellinNode B>			EACH	ignore
>>>Local Cell ID	M		9.2.1.38		–	
>>>DL or Global Capacity Credit	O		9.2.2.12			
>>>UL Capacity Credit	O		9.2.2.60			
>>>Maximum DL Power Capability	O		9.2.1.39		–	
<b>&gt;&gt;Communication Control Port Information</b>		0.. <maxCCPi nNodeB>			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		-	
<b>&gt;&gt;Cell Information</b>		0.. <maxCellin NodeB>			EACH	ignore
>>>C-ID	M		9.2.1.9		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
>>>Maximum DL Power Capability	FFS		9.2.1.39		-	
>>>Minimum Spreading Factor	FFS		9.2.1.47		-	
<b>&gt;&gt;Primary SCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;Secondary SCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;Primary CPICH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;Secondary CPICH Information</b>		0..<maxSC PICHCell>			EACH	ignore
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;Primary CCPCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;BCH Information</b>		0..1			YES	ignore
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;Secondary CCPCH Information</b>		0..<maxSC CPCHCell >			EACH	ignore

>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;PCH Information</b>		0..1			EACH	ignore
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;PICH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;FACH Information</b>		0.. <maxFACHCell>			EACH	ignore
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;PRACH Information</b>		0..<maxPRACHCell>			EACH	ignore
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;RACH Information</b>		0.. <maxRACHCell>			EACH	ignore
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;AICH Information</b>		0.. <maxAICHCell>			EACH	ignore
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
<b>&gt;&gt;PCPCH Information</b>		0..<maxPCPCHCell>			EACH	ignore
>>>Common Physical Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;CPCH Information</b>		0.. <maxCPCHCell>			EACH	ignore
>>>Common Transport Channel ID	M				-	

>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;AP-AICH Information</b>		0.. <maxCPC HCell>			EACH	ignore
>>>Common Physical Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;CD/CA-ICH Information</b>		0.. <maxCPC HCell>			EACH	ignore
>>>Common Physical Channel ID	M				-	
>>>Resource Operational State	M				-	
>>>Availability Status	M				-	
<b>&gt;&gt;SCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.14		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
Cause	O		9.2.1.6		YES	ignore

Condition	Explanation
C-add	This IE is present only if "Add/Delete Indicator" equals to add

Range bound	Explanation
<i>MaxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>MaxCellinNodeB</i>	Maximum number of C ID that can be configured in Node B
<i>MaxCPCHCell</i>	Maximum number of CPCHes that can be defined in a Cell
<i>MaxSCPICHCell</i>	Maximum number of Secondary CPICH that can be defined in a Cell.
<i>MaxSCCPCHCell</i>	Maximum number of Secondary CCPCH that can be defined in a Cell.
<i>MaxFACHCell</i>	Maximum number of FACHes that can be defined in a Cell
<i>MaxPCPCHCell</i>	Maximum number of PCPCHes that can be defined in a Cell
MaxPRACHCell	Maximum number of PRACHes and AICHes that can be defined in a Cell
<i>MaxCCPinNodeB</i>	Maximum number of communication control ports that can exist in the Node B
<i>MaxConsumptionLaws</i>	Maximum number of credit consumption laws.

### 9.1.33 SYSTEM INFORMATION UPDATE REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	

Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject
BCCH Modification Time	O		9.2.1.3		YES	reject
<b>MIB/SIB Information</b>		<i>1..maxIB</i>			GLOBAL	reject
>IB Type	M		9.2.1.35	In one message, every IB Type can only be deleted once and/or added once.	-	
>CHOICE IB <i>DeletionIndicator</i>						
> <i>NoDeletion</i>					YES	reject
>>SIB Originator	C-NotMIB		9.2.1.55		-	
>>IB SG REP	O		9.2.1.34		-	
<b>&gt;&gt;Segment Information</b>		<i>1..maxIBSEG</i>			GLOBAL	reject
>>>IB SG POS	O		9.2.1.33		-	
>>>IB SG DATA	C – CRNCOri nation		9.2.1.32		-	
>Deletion			NULL			

Range bound	Explanation
<i>1..maxIB</i>	Maximum number of information Blocks supported in one message.
<i>1..maxIBSEG</i>	Maximum number of segments for one Information Block

Condition	Explanation
CRNCOri nation	The IE shall be present if <i>the SIB Originator</i> IE is set to 'CRNC'
NotMIB	This IE shall be present if the IB Type is not equal to "MIB"

### 9.1.34 SYSTEM INFORMATION UPDATE RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.35 SYSTEM INFORMATION UPDATE FAILURE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.36 RADIO LINK SETUP REQUEST

## 9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.59		–	
>Min UL Channelisation Code length	M		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.21		–	
>puncture limit	M		9.2.1.50	For UL	–	
>TFCS	M		9.2.1.58	for UL	–	
>UL DPCCH Slot Format	M		9.2.2.57		–	
> UL SIR Target	M		UL SIR 9.2.2.58		–	
>Diversity mode	M		9.2.2.29		–	
>D Field Length	C – FB		9.2.2.5		–	
>SSDT cell ID Length	O		9.2.2.45		–	
>S Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>					YES	reject
>TFCS	M		9.2.1.58	For DL	–	
>DL DPCH Slot Format	M		9.2.2.10		–	
>TFCI signalling mode	M		9.2.2.50		–	
>TFCI presence	C- SlotFormat		9.2.1.57		–	
>Multiplexing Position	M		9.2.2.29		–	
>PDSCH RL ID	C-DSCH		RL ID 9.2.1.53		–	
>PDSCH code mapping	C-DSCH		9.2.2.25		–	
<b>&gt;Power Offset Information</b>		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		–	
>Limited Power Increase	M				–	
<b>DCH Information</b>		1 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	

>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For UL	–	
>>Transport Format Set	M		9.2.1.59	For DL	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DSCH Information</b>		0 to <maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For DSCH	–	
>Frame handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>RL Information</b>		1 to <maxnoof RLs>			EACH	notify
>RL ID	M		9.2.1.53		–	
>C-ID	M		9.2.1.9		–	
>First RLS Indicator	M				–	
>Frame Offset	M		9.2.1.31		–	
>Chip Offset	M		9.2.2.2		–	
>Propagation Delay	O		9.2.2.35		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.7		–	
<b>&gt;DL Code Information</b>		1 to <maxnoof-DLCodes>			–	
>>DL Scrambling Code	M		9.2.2.13		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				–	
>Initial DL transmission Power	M		DL Power 9.2.1.21		–	
>Maximum DL power	M		DL Power 9.2.1.21		–	
>Minimum DL power	M		DL Power 9.2.1.21		–	
>SSDT Cell Identity	O		9.2.2.44		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53			
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.
DSCH	This IE is present only if the DSCH Information group is present
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDLCodes	Maximum number of DL code information.



## 9.1.36.2 TDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCH Information</b>		0 to <maxno CCH>			EACH	notify
>CCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
<b>UL DPCH Information</b>		0 to <maxnoOf DPCH>			GLOBAL	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift and Burst Type	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.1.16		–	
>Repetition Length	M		9.2.1.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>DL CCH Information</b>		0 to <maxno CCH>			EACH	notify
>CCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
>TDD TPC DL Step Size	M		9.2.3.21			
<b>DL DPCH information</b>		0 to <maxnoOf DPCH>			GLOBAL	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift and Burst Type	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.3.16		–	
>Repetition Length	M		9.2.3.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>DCH Information</b>		0 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	

>UL FP mode	M		9.2.1.66		-	
>ToAWS	M		9.2.1.61		-	
>ToAWE	M		9.2.1.60		-	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			-	
>>DCH ID	M		9.2.1.20		-	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped	-	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	-	
>>Transport Format Set	M		9.2.1.59	For UL	-	
>>Transport Format Set	M		9.2.1.59	For DL	-	
>>Frame Handling Priority	O		9.2.1.30		-	
>>QE-Selector	M		9.2.1.50A		-	
<b>DSCH Information</b>		0 to <Maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		-	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	-	
>Transport Format Set	M		9.2.1.59	For DSCH	-	
>Frame handling Priority	M		9.2.1.30		-	
>ToAWS	M		9.2.1.61		-	
>ToAWE	M		9.2.1.60		-	
<b>USCH Information</b>		0 to <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		-	
>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the USCH is mapped	-	
>Transport Format Set	M		9.2.1.59	For USCH	-	
>QE-Selector	M		9.2.1.50A		-	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.53		-	
>C-ID	M		9.2.1.9		-	
>Frame Offset	M		9.2.1.31		-	
>Initial DL transmission Power	M		DL Powe 9.2.1.21r		-	
>Maximum DL power	M		DL Power 9.2.1.21		-	
>Minimum DL power	M		DL Power 9.2.1.21		-	

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for one UE
maxnoOfDPCH	Maximum number of DPCH in one CCTrCH
maxnoCCTrCH	Number of CCTrCH for one UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE
MaxnoofUSCHs	Maximum number of USCH for one UE

## 9.1.37 RADIO LINK SETUP RESPONSE

## 9.1.37.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	M		9.2.1.15		YES	ignore
<b>RL Information Response</b>		1 to <maxnoofRLs>			EACH	ignore
>RL ID	M		9.2.1.53		–	
>RL Set ID	M		9.2.2.39			
>UL interference level	M		9.2.1.67		–	
>Diversity Indication	C-NotFirstRL		9.2.2.8		–	
>CHOICE <i>diversity Indication</i>						
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	–	
>>Non Combining or First RL					YES	ignore
>>>DCH Information Response		0 to <maxnoofDCHs>		Only one DCH per set of coordinated DCH shall be included	–	
>>>>DCH ID	M		9.2.1.20		–	
>>>>Binding ID	M		9.2.1.4		–	
>>>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;DSCH Information Response</b>		0 to <Numof DSCH>			GLOBAL	ignore
>>DSCH ID	M		9.2.1.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
>SSDT Support Indicator	M		9.2.2.46		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Condition	Explanation
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of DCH per UE.
MaxnoofDSCHs	Maximum number of DSCHs for one UE.

## 9.1.37.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	M		9.2.1.15		YES	ignore
<b>RL Information Response</b>		1			YES	ignore
>RL ID	M		9.2.1.53		–	
<b>&gt;UL Interference per Time Slot</b>		1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link		
>Time Slot	M		9.2.3.23			
>UL interference level	M		9.2.1.67			
<b>&gt;DCH Information Response</b>		1 to <maxnoofDCH>		Only one DCH per set of coordinated DCH shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.20		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;DSCH Information Response</b>		0 .. <MaxnoofDSCHs>			GLOBAL	ignore
>>DSCH ID	M		9.2.1.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;USCH Information Response</b>		0 .. <MaxnoofUSCHs>			GLOBAL	ignore
>>USCH ID	M		9.2.3.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of DCH per UE
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoofUSCHs	Maximum number of USCHs for one UE
MaxnoofULts	Maximum number of Uplink time slots per Radio Link

## 9.1.38 RADIO LINK SETUP FAILURE

## 9.1.38.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used	YES	ignore
Communication Control Port ID	O		9.2.1.15		YES	ignore
CHOICE <i>cause level</i>						
> <i>General</i>					YES	ignore
>> <i>Cause</i>	M					
> <i>RL specific</i>					YES	ignore
>> <b>Unsuccessful RL Information Response</b>		1 to <maxnoo fRLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>Cause	M		9.2.1.6		–	
>> <b>Successful RL Information Response</b>		0 to <maxnoo fRLs-1>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>RL Set ID	M		9.2.2.39			
>>>UL interference level	M		9.2.1.67		–	
>>>Diversity Indication	C-NotFirstRL		9.2.2.8		–	
>>>CHOICE <i>diversity Indication</i>					–	
>>>> <i>Combining</i>					YES	ignore
>>>>>RL ID	M		9.2.1.53	Reference RL ID for the combining	–	
>>>>> <i>Non Combining or First RL</i>					YES	ignore
>>>>> <b>DCH Information Response</b>		0 to <maxnoo fDCHs>		Only one DCH per set of coordinated DCH shall be included	–	
>>>>>>DCH ID	M		9.2.1.20		–	
>>>>>>Binding ID	M		9.2.1.4		–	
>>>>>>Transport Layer Address	M		9.2.1.63		–	
>>> <b>DSCH Information Response</b>		0 to <Numof DSCH>			GLOBAL	Ignore
>>>>DSCH ID	M		9.2.1.27		–	
>>>>Binding ID	M		9.2.1.4		–	
>>>>Transport Layer	M		9.2.1.63		–	

Address						
>>>SSDT Support Indicator	M		9.2.2.46		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Condition	Explanation
Success	This IE is present if at least one of the radio links has been successfully set up.
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.

Range bound	Explanation
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDCHs	Maximum number of set DCH per UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE

### 9.1.38.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
CHOICE <i>cause level</i>						
> <i>General</i>					YES	ignore
>> <i>Cause</i>	M					
> <i>RL specific</i>					YES	ignore
>> <b>Unsuccessful RL Information Response</b>		1			YES	ignore
>>>RL ID	M		9.2.1.55		–	
>>> <i>Cause</i>	M		9.2.1.6		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.39 RADIO LINK ADDITION REQUEST

## 9.1.39.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
Compressed Mode Deactivation Flag	O				YES	reject
<b>RL Information</b>		1..<maxnoofRL-1>			EACH	notify
>RL ID	M		9.2.1.53		–	
>C-Id	M		9.2.1.9		–	
>Frame Offset	M		9.2.1.31		–	
>Chip Offset	M		9.2.2.2		–	
>Diversity Control Field	M		9.2.2.7		–	
<b>&gt;DL Code Information</b>		1..maxnoofDL Codes			–	
>>DL Scrambling code	M		9.2.2.13		–	
>>FDD DL channelisation code number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	O				–	
>Initial DL transmission power	O		DL Power 9.2.1.21		–	
>Maximum DL power	O		DL Power 9.2.1.21		–	
>Minimum DL power	O		DL Power 9.2.1.21		–	
>SSDT Cell Identity	O		9.2.2.44		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53			

Condition	Explanation
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"

Range bound	Explanation
<i>MaxnoofRL</i>	Maximum number of RLs for one UE
<i>MaxnoofDL Codes</i>	Maximum number of DL code information



## 9.1.39.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.52		–	
<b>UL CCH Information</b>		0 to <max number of CCH>			GLOBAL	reject
>CCH ID	M		9.2.3.3		–	
<b>UL DPCH Information</b>		0 to <max number of DPCH>			EACH	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift and Burst Type	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.3.16		–	
>Repetition Length	M		9.2.3.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>DL CCH Information</b>		0 to <max number of CCH>			GLOBAL	reject
>CCH ID	M		9.2.3.3		–	
<b>DL DPCH information</b>		0 to <max number of DPCH>			EACH	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.2.79.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift and Burst Type	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.3.16		–	
>Repetition Length	M		9.2.3.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.53		–	
>C-Id	M		9.2.1.9		–	
>Frame Offset	M		9.2.1.31		–	
>Diversity Control Field	M		9.2.2.7		–	
>Initial DL Power	O		DL Power 9.2.1.21		–	
>Maximum DL power	O		DL Power 9.2.1.21		–	

>Minimum DL power	O		DL Power 9.2.1.21		–	
-------------------	---	--	----------------------	--	---	--

Range bound	Explanation
MaxnoOfDPCH	Maximum number of DPCH in one CCTrCH
MaxnoCCTrCH	number of CCTrCH for one UE.

## 9.1.40 RADIO LINK ADDITION RESPONSE

### 9.1.40.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
<b>RL Information Response</b>		1..<maxno ofRL-1>			EACH	ignore
>RL ID	M		9.2.1.53		–	
>RL Set ID	M		9.2.2.9			
>UL interference level	M		9.2.1.67		–	
>Diversity Indication	M		9.2.2.8		–	
>CHOICE <i>diversity indication</i>					–	
>>Combining					YES	ignore
>>>RL ID	M		9.2.1.53	Reference RL	–	
>>Non combining					YES	ignore
<b>&gt;&gt;&gt;DCH Information Response</b>		1..<maxno ofDCHs>			–	
>>>>DCH ID	M		9.2.1.20		–	
>>>>Binding ID	M		9.2.1.4		–	
>>>>Transport Layer Address	M		9.2.1.63		–	
>SSDT support indicator	M		9.2.2.46		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
MaxnoofDCHs	Maximum number of DCHs per UE
MaxnoofRL	Maximum number of RLs for one UE

## 9.1.40.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
<b>RL Information response</b>		1			YES	ignore
>RL ID	M		9.2.1.53		–	
<b>&gt;UL Interference per Time Slot</b>	M	1 .. <maxnoofULts>		Interference Level for each UL time slot within the Radio Link		
>>Time Slot	M		9.2.3.23			
>>UL interference level	M		9.2.1.67		–	
>Diversity Indication	M		9.2.2.8		–	
>CHOICE <i>diversity indication</i>						
>Combining				In TDD it indicates whether the old Transport Bearer shall be reused or not	YES	ignore
>>RL ID	M		9.2.1.53	Reference RL	–	
>Non combining					YES	ignore
<b>&gt;&gt;DCH Information Response</b>		0..<maxnoofDCHs>			–	
>>>DCH ID	M		9.2.1.20		–	
>>>Binding ID	M		9.2.1.4		–	
>>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;DSCH Information Response</b>		0 .. <MaxnoofDSCHs>			GLOBAL	ignore
>>DSCH ID	M		9.2.1.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;USCH Information Response</b>		0 .. <MaxnoofUSCHs>			GLOBAL	ignore
>>USCH ID	M		9.2.3.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs per UE
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUDCHs</i>	Maximum number of USCHs for one UE
<i>MaxnoofULts</i>	Maximum number of Uplink time slots per Radio Link

## 9.1.41 RADIO LINK ADDITION FAILURE

## 9.1.41.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
CHOICE <i>cause level</i>						
> <i>General</i>					YES	ignore
>> <i>Cause</i>	M					
> <i>RL specific</i>					YES	ignore
>> <b>Unsuccessful RL Information Response</b>		1..<maxnoofRL-1>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>Cause	M		9.2.1.6		–	
>> <b>Successful RL Information Response</b>		1..<maxnoofRL-2>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>RL Set ID	M		9.2.2.39			
>>>UL interference level	M		9.2.1.67		–	
>>>Diversity Indication	M		9.2.2.8		–	
>>>CHOICE <i>diversity indication</i>						
>>>> <i>Combining</i>					YES	ignore
>>>>>RL ID	M		9.2.1.53	Reference RL	–	
>>>> <i>Non combining</i>					YES	Ignore
>>>>> <b>DCH Information Response</b>		1..<maxnoofDCHs>			–	
>>>>>>DCH ID	M		9.2.1.20		–	
>>>>>>>Binding ID	M		9.2.1.4		–	
>>>>>>>Transport Layer Address	M		9.2.1.63		–	
>>>>SSDT support indicator	M		9.2.2.46		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs per UE
<i>MaxnoofRL</i>	Maximum number of RLs for one UE

## 9.1.41.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
CHOICE <i>cause level</i>						
>General					YES	ignore
>>Cause	M					
>RL specific					YES	ignore
>>Unsuccessful RL Information Response		1			YES	ignore
>>>RL ID	M		9.2.1.53		–	
>>>Cause	M		9.2.1.6		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.42 RADIO LINK RECONFIGURATION PREPARE

## 9.1.42.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling code	O		9.2.2.59		–	
>UL SIR Target	O		UL SIR 9.2.2.58			
>Min UL Channelisation Code Length	O		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.20		–	
>Puncture Limit	O		9.2.1.50	For UL	–	
>TFCS	O		9.2.1.58		–	
>UL DPCCH Slot Format	O		9.2.2.57		–	
>SSDT Cell Identity Length	O		9.2.2.45		–	
>S-Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>		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-Slot Format		9.2.1.57		–	
>Multiplexing Position	O		9.2.2.23		–	
>PDSCH code mapping	O		9.2.2.25			
>PDSCH RL ID	O		RL ID 9.2.1.53			
>Limited Power Increase	O				–	
<b>DCHs to Modify</b>		0..<max noofDC Hs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.20		–	
<b>DCHs to Add</b>		0..<max noofDC Hs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP Mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	

>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;max noofDC Hs&gt;</i>			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DCHs to Delete</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH to modify</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	O		9.2.1.59	For the DL.	–	
>Frame Handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH to add</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For the DL.	–	
>Frame Handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH to Delete</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
<b>RL Information</b>		<i>0..&lt;max noofRLs &gt;</i>			EACH	reject
>RL ID	M		9.2.1.53		–	
<b>&gt;DL Code Information</b>		<i>0..&lt;max noofDL Codes&lt;</i>			–	
>>DL Scrambling Code	O		9.2.2.12		–	
>>FDD DL Channelisation Code Number	O		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				–	
>Maximum DL Power	O		DL Power 9.2.1.21		–	
>Minimum DL Power	O		DL Power 9.2.1.21		–	
>SSDT Indication	O		9.2.2.47		–	
>SSDT Cell Identity	C- SSDTIndON		9.2.2.44		–	
Transmission Gap Pattern Sequence Information	O				YES	reject

Condition	Explanation
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.



## 9.1.42.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH to Add</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
<b>&gt;UL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
>> <del>Burst Type</del>	<del>M</del>		<del>9.2.3.2</del>		<del>–</del>	
>>Midamble Shift <u>and Burst Type</u>	M		9.2.3.7		–	
>>Time Slot	M		9.2.3.23		–	
>>TDD Physical channel Offset	M		9.2.3.20		–	
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TFCI Presence	M		9.2.1.57		–	
<b>UL CCTrCH to Modify</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M				–	
>TFCS	O				–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>&gt;UL DPCH to add</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	M				–	
>> <del>Burst Type</del>	<del>M</del>				<del>–</del>	
>>Midamble Shift <u>and Burst Type</u>	M				–	
>>Time Slot	M				–	
>>TDD Physical channel Offset	M				–	

>>Repetition Period	M				-	
>>Repetition Length	M				-	
>>TFCI Presence	M				-	
<b>&gt;UL DPCH to modify</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	O				-	
>> <del>Burst Type</del>	<del>O</del>				<del>-</del>	
>>Midamble Shift <u>and Burst Type</u>	O				-	
>>Time Slot	O				-	
>>TDD Physical channel Offset	O				-	
>>Repetition Period	O				-	
>>Repetition Length	O				-	
>>TFCI Presence	O				-	
<b>&gt;UL DPCH to delete</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
<b>UL CCTrCH to Delete</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M				-	
<b>DL CCTrCH to Add</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		-	
>TFCS	M		9.2.1.58		-	
>TFCI Coding	M		9.2.3.22		-	
>PunctureLimit	M		9.2.1.50		-	
<b>&gt;DL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		-	
>>TDD Channelisation Code	M		9.2.3.19		-	
>> <del>Burst Type</del>	<del>M</del>		<del>9.2.3.2</del>		<del>-</del>	
>>Midamble Shift <u>and Burst Type</u>	M		9.2.3.7		-	
>>Time Slot	M		9.2.3.23		-	
>>TDD Physical Channel Offset	M		9.2.3.20		-	
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TFCI Presence	M		9.2.1.57		-	
<b>DL CCTrCH to Modify</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M				-	

>TFCS	O				-	
>TFCI Coding	O				-	
>PunctureLimit	O				-	
<b>&gt;DL DPCH to add</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	M				-	
>>Burst Type	M				-	
>>Midamble Shift and Burst Type	M				-	
>>Time Slot	M				-	
>>TDD Physical Channel Offset	M				-	
>>Repetition Period	M				-	
>>Repetition Length	M				-	
>>TFCI Presence	M				-	
<b>&gt;DL DPCH to modify</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	O				-	
>>Burst Type	O				-	
>>Midamble Shift and Burst Type	O				-	
>>Time Slot	O				-	
>>TDD Physical Channel Offset	O				-	
>>Repetition Period	O				-	
>>Repetition Length	O				-	
>>TFCI Presence	O				-	
<b>&gt;DL DPCH to delete</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
<b>DL CCTrCH to Delete</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M				-	
<b>DCHs to Modify</b>		0..<max noofDC Hs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		-	
>ToAWS	O		9.2.1.61		-	
>ToAWE	O		9.2.1.60		-	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			-	
>>DCH ID	M		9.2.1.20		-	
>>CCTrCH ID	O		9.2.3.3	UL CCTrCH in which the DCH is mapped.	-	

>>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP Mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;max noofDC Hs&gt;</i>			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
<b>DCHs to Delete</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH Information to modify</b>		<i>0 .. &lt;Maxno of DSCHs &gt;</i>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	O		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH Information to add</b>		<i>0 .. &lt;Maxno of DSCHs &gt;</i>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	

<b>DSCH Information to delete</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
<b>USCH Information to modify</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>Transport Format Set	O		9.2.1.59		–	
>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the USCH is mapped	–	
<b>USCH Information to add</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>QE-Selector	M		9.2.1.50A		–	
<b>USCH Information to delete</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
<b>RL Information</b>		0..1			YES	reject
>RL ID	M		9.2.1.53		–	
>Maximum Downlink Power	O		DL Power 9.2.1.21		–	
>Minimum Downlink Power	O		DL Power 9.2.1.21		–	

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>Maxnoof DPCHs</i>	Maximum number of DPCHs in one CCTrCH.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

## 9.1.43 RADIO LINK RECONFIGURATION READY

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
<b>RL Information Response</b>		<i>0..&lt;max noofRLs &gt;</i>		Only one RL information response group for one group of combined RLs shall be present	EACH	ignore
>RL ID	M		9.2.1.53		–	
<b>&gt;DCH Information Response</b>		<i>0..&lt;max noofDCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.20		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;DSCH Information Response</b>		<i>0..&lt;Max noofDSCHs&gt;</i>			GLOBAL	ignore
>>DSCH ID	M		9.2.1.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;USCH Information Response</b>		<i>0 .. &lt;Maxno of USCHs &gt;</i>			GLOBAL	ignore
>>USCH ID	M		9.2.3.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

## 9.1.44 RADIO LINK RECONFIGURATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
CHOICE <i>cause level</i>						
> <i>General</i>					YES	ignore
>> <i>Cause</i>	M		9.2.1.6		YES	ignore
> <i>RL specific</i>					YES	ignore
>> <b>RLs Causing Reconfiguration Failure</b>		<i>0..&lt;max noofRLs &gt;</i>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>Cause	M		9.2.1.6		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.

## 9.1.45 RADIO LINK RECONFIGURATION COMMIT

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message type	M		9.2.1.46		YES	ignore
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	M		9.2.1.62		–	
CFN	M		9.2.1.7		YES	ignore
Active Pattern Sequence Information	O				YES	ignore

## 9.1.46 RADIO LINK RECONFIGURATION CANCEL

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message type	M		9.2.1.46		YES	ignore
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	M		9.2.1.62		–	

## 9.1.47 RADIO LINK RECONFIGURATION REQUEST

## 9.1.47.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.58	For the UL.	–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.58	For the DL.	–	
>TFCI Signalling Mode	O		9.2.2.50		–	
>PDSCH code mapping	O		9.2.2.25			
>PDSCH RL ID	O		RL ID 9.2.1.53			
>Limited Power Increase	O				–	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DCHs to Delete</b>		0..<maxn oofDCHs >			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH to Modify</b>		0..<maxn oofDSCH s>			YES	reject



>DSCH ID	M		9.2.1.27		-	
>Transport Format Set	O		9.2.1.59	For the DL.	-	
>Frame Handling Priority	O		9.2.1.30		-	
>ToAWS	O		9.2.1.61		-	
>ToAWE	O		9.2.1.60		-	
<b>DSCH to Add</b>		<i>0..&lt;maxnoofDSCHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		-	
>Transport Format Set	M		9.2.1.59	For the DL.	-	
>Frame Handling Priority	M		9.2.1.30		-	
>ToAWS	M		9.2.1.61		-	
>ToAWE	M		9.2.1.60		-	
<b>DSCH to Delete</b>		<i>0..1</i>			YES	reject
>DSCH ID	M		9.2.1.27		-	
<b>Radio Link Information</b>		<i>0..&lt;maxnoofRLs&gt;</i>			EACH	reject
>RL ID	M		9.2.1.53		-	
>Maximum DL Power	O		DL Power 9.2.1.53		-	
>Minimum DL Power	O		DL Power 9.2.1.53		-	
<b>&gt;DL Code Information</b>	C-SF/2	<i>0..&lt;maxnoofDLCodes&lt;</i>			-	
>>DL Scrambling Code	O				-	
>>FDD DL Channelisation Code Number	O				-	
>>Transmission Gap Pattern sequence Code Information	O				-	
Transmission Gap Pattern Sequence Information	O				YES	reject

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.

Condition	Explanation
SF/2	This IE group is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

## 9.1.47.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CTrCH to modify</b>		0..<maxn oofCTrCHs>			EACH	notify
>CTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
<b>UL CTrCH to delete</b>		0..<maxn oofCTrCHs>			EACH	notify
>CTrCH ID	M				–	
<b>DL CTrCH to modify</b>		0..<maxn oofCTrCHs>			EACH	notify
>CTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
<b>DL CTrCH to delete</b>		0..<maxn oofCTrCHs>			EACH	notify
>CTrCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>CTrCH ID	O		9.2.3.3	UL CTrCH in which the DCH is mapped.	–	
>>CTrCH ID	O		9.2.3.3	DL CTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP Mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	

>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DCHs to Delete</b>		0..<maxn oofDSCH s>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH Information to modify</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	O		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	O		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH Information to add</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.29		–	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH Information to delete</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
<b>USCH Information to modify</b>		0 .. <Maxnoo f USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	O		9.2.1.59		–	
<b>USCH Information to add</b>		0 ..			GLOBAL	reject

		<Maxnoof USCHs>				
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>QE-Selector	M		9.2.1.50A		–	
<b>USCH Information to delete</b>		0 .. <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
<b>RL Information</b>		0..1			YES	reject
>RL ID	M		9.2.1.53		–	
>Maximum Downlink Power	O		DL Power 9.2.1.21		–	
>Minimum Downlink Power	O		DL Power 9.2.1.21		–	
>Time slot ISCP Info		0..<maxnoofDLts>			–	
>>Time slot	M				–	
>>DL Time slot ISCP	M				–	

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE
<i>MaxnoofDLts</i>	Maximum number of Downlink time slots per Radio Link

## 9.1.48 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
<b>RL Information Response</b>		<i>0..&lt;maxnoofRLs&gt;</i>		Only one RL information response group for one group of combined RLs shall be present	EACH	ignore
>RL ID	M		9.2.1.53		–	
<b>&gt;DCH Information Response</b>		<i>0..&lt;maxnoofDCHs&gt;</i>		Only one DCH per set of co-ordinated DCHs shall be included.	GLOBAL	ignore
>>DCH ID	M		9.2.1.20		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;DSCH Information Response</b>		<i>0..&lt;MaxnoofDSCHs&gt;</i>			GLOBAL	ignore
>>DSCH ID	M		9.2.1.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
<b>&gt;USCH Information Response</b>		<i>0 .. &lt;MaxnoofUSCHs&gt;</i>			GLOBAL	ignore
>>USCH ID	M		9.2.3.27		–	
>>Binding ID	M		9.2.1.4		–	
>>Transport Layer Address	M		9.2.1.63		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

## 9.1.49 RADIO LINK DELETION REQUEST

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>RL Information</b>		1..<maxnoofRLs>			EACH	notify
>RL ID	M		9.2.1.53		–	

Range bound	Explanation
<i>MaxnoofRLs</i>	Maximum number of radio links for one UE

## 9.1.50 RADIO LINK DELETION RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
Transaction ID	M		9.2.1.62		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

## 9.1.51 DL POWER CONTROL REQUEST [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	ignore
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	M		9.2.1.62		-	
Power Adjustment Type	M		9.2.2.27		YES	ignore
DL Reference Power	C-Common		DL power 9.2.1.21		YES	Ignore
<b>DL Reference Power Information</b>	C-Individual	1..<maxnoof RLs>			GLOBAL	ignore
>RL ID	M		9.2.1.53		-	
>DL Reference Power	M		DL power 9.2.1.21		-	
Max Adjustment Step	C-CommonOrIndividual		9.2.2.20		YES	ignore
Adjustment Period	C-CommonOrIndividual		9.2.2.A		YES	ignore
Adjustment Ratio	C-CommonOrIndividual		9.2.2.B		YES	ignore

Condition	Explanation
Common	This IE is present only "Adjustment Type " equals to 'Common'
Individual	This IE is present only "Adjustment Type " equals to 'Individual'
CommonOrIndividual	This IE is present only "Adjustment Type " equals to 'Common' or 'Individual'

Range Bound	Explanation
MaxnoofRLs	Maximum number of Radio Links for a UE

## 9.1.52 DEDICATED MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context Id	M		9.2.1.48	The reserved value "All NBCC" shall not be used when the Report characteristics type is set to "On-Demand".	YES	reject
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	reject
Dedicated Measurement Object Type	M		9.2.1.22		YES	reject
CHOICE <i>Dedicated Measurement Object Type</i>					YES	ignore
>"RL"					YES	reject
>>RL Information		1..<maxnoofRLs>			EACH	reject
>>>RL ID	M		9.2.1.53		–	
>>>DPCH ID	O		9.2.3.5		–	
>"RLS"						
>>RL Set Information		1..<maxnoofRLSets>				
>>>RL Set ID	M		9.2.2.39			
Dedicated Measurement Type	M		9.2.1.23		YES	reject
Measurement Filter Coefficient	O		9.2.1.41		YES	reject
Report Characteristics	M		9.2.1.51		YES	reject

Range	Explanation
<i>MaxnoofRLs</i>	Maximum number of individual RL's a measurement can be started on.
<i>MaxnoofRLSets</i>	Maximum number of individual RL Sets a measurement can be started on.



### 9.1.53 DEDICATED MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context Id	M		9.2.1.18		YES	ignore
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>"RL" or "ALL RL"					YES	ignore
>>RL Information		1..<maxnoofRLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>DPCH ID	O		9.2.3.5		–	
>>>Dedicated Measurement Value	M		9.2.1.24			
>"RLS" or "ALL RLS"					YES	ignore
>>RL Set Information		1..<maxnoofRLSets>			–	
>>>RL Set ID	M		9.2.2.39			
>>>Dedicated Measurement Value	M		9.2.1.24			
CFN	O		9.2.1.7	Dedicated Measurement Time Reference	YES	ignore
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range	Explanation
<i>MaxnoofRLs</i>	Maximum number of individual RL's the measurement can be started on.
<i>MaxnoofRLSets</i>	Maximum number of individual RL Sets a measurement can be started on.

### 9.1.54 DEDICATED MEASUREMENT INITIATION FAILURE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context Id	M		9.2.1.18		YES	ignore
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore
Criticality diagnostics	O		9.2.1.17		YES	ignore

### 9.1.55 DEDICATED MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
CRNC Communication Context Id	M		9.2.1.18		YES	ignore
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore
CHOICE <i>Dedicated Measurement Object Type</i>				Dedicated Measurement Object Type the measurement was initiated with	YES	ignore
>"RL" or "ALL RL"					YES	ignore
>>RL Information		1..<maxnoofRLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>DPCH ID	O		9.2.3.5		–	
>>>CHOICE <i>Measurement Availability Indicator</i>						
>>>>"Measurement Available"					YES	ignore
>>>>>Dedicated Measurement Value	M		9.2.1.24		–	
>>>>>"Measurement not Available"			NULL		YES	ignore
>"RLS" or "ALL RLS"						
>>RL Set Information		1..<maxnoofRLSets>				
>>>RL Set ID	M		9.2.1.39			
>>>CHOICE <i>Measurement Availability Indicator</i>						
>>>>"Measurement Available"					YES	ignore
>>>>>Dedicated Measurement Value	M		9.2.1.24			
>>>>>"Measurement not Available"			NULL		YES	ignore
CFN	O		9.2.1.7	Dedicated Measurement Time Reference	YES	ignore

Range	Explanation
<i>MaxnoofRLs</i>	Maximum number of individual RL's the measurement can be started on.
<i>MaxnoofRLSets</i>	Maximum number of individual RL Sets a measurement can be started on.

## 9.1.56 DEDICATED MEASUREMENT TERMINATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Node B Communication Context Id	M		9.2.1.48	The reserved value "All NBCC" shall only be used if this value was used when initiating the measurement.	YES	ignore
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore

## 9.1.57 DEDICATED MEASUREMENT FAILURE INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
CRNC Communication Context Id	M		9.2.1.18		YES	ignore
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore
Cause	M		9.2.1.6		YES	ignore

## 9.1.58 RADIO LINK FAILURE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
CHOICE <i>Reporting Object</i>	M			Object for which the Failure shall be reported.		
>"RL"						
>>RL Information		1 to <MaxnoofRLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>>>Cause	M		9.2.1.6		–	
>"RL Set"						
>>RL Set Information		1 to <MaxnoofRLSets>				
>>>RL Set ID	M		9.2.2.39			
>>>Cause	M		9.2.1.6			

Range bound	Explanation
<i>MaxnoofRLs</i>	Maximum number of RLs for one UE.
<i>MaxnoofRLSets</i>	Maximum number of RL Sets for one UE.

## 9.1.59 RADIO LINK RESTORE INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
CRNC Communication Context ID	M		9.2.1.18		YES	ignore
CHOICE <i>Reporting Object</i>	M			Object for which the Restoration shall be reported.		
>"RL"						
>>Radio Link Information		1 to <MaxnoofRLs>			EACH	ignore
>>>RL ID	M		9.2.1.53		–	
>"RL Set"						
>>RL Set Information		1 to <MaxnoofRL Sets>				
>>>RL Set ID	M		9.2.2.39			

Range bound	Explanation
<i>MaxnoofRLs</i>	Maximum number of RLs for one UE.
<i>MaxnoofRL Sets</i>	Maximum number of RL Sets for one UE.

## 9.1.60 COMPRESSED MODE COMMAND [FDD]

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Node B communication context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction ID	M		9.2.1.62		–	
CFN	M		9.2.1.7		YES	ignore
Active Pattern Sequence Information	M				YES	ignore

## 9.1.61 ERROR INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1.45		-	
Message Discriminator	M		9.2.1.46		YES	ignore
CRNC Communication Context Id	C-ifUL		9.2.1.18		-	
Node B Communication Context Id	C-ifDL		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Transaction Id	M		9.2.1.62		YES	ignore
Cause	C-ifalone		9.2.1.6		YES	ignore
Criticality diagnostics	C-ifalone		9.2.1.17		YES	ignore

Condition	Explanation
IfDL	This IE is only present when message is transmitted by the CRNC on a signalling bearer corresponding to a communication control port.
IfUL	This IE is only present when message is transmitted by the Node B on a signalling bearer corresponding to a communication control port.
Ifalone	At least either of Cause IE or Criticality Diagnostics IE shall be present.

## 9.1.62 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
C-ID	M		9.2.1.9		YES	reject
<b>PDSCH Sets to add</b>		<i>0..&lt;maxnoof PDSCHSets &gt;</i>			GLOBAL	reject
>PDSCH Set Id	M		9.2.3.11		-	
<b>&gt;PDSCH Information</b>		<i>0..&lt;maxnoof PDSCH&gt;</i>			GLOBAL	reject
>>PDSCH ID	M		9.2.3.10		-	
>>TDD Channelisation Code	M		9.2.3.19		-	
>> <del>Burst Type</del>	<del>M</del>		<del>9.2.3.2</del>		<del>-</del>	
>>Midamble Shift and Burst Type	M		9.2.3.7		-	
>>Time Slot	M		9.2.3.23		-	
>>Repetition Period	M		9.2.3.16		-	
>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>Repetition Length	O		9.2.3.15		-	
>>TFCI Presence	M		9.2.1.57		-	
<b>PDSCH Sets to Modify</b>		<i>0..&lt;maxnoof PDSCHSets &gt;</i>			GLOBAL	reject
>PDSCH Set Id	M		9.2.3.11		-	

<b>&gt;PDSCH Information</b>		<i>0..&lt;maxnoof PDSCH&gt;</i>			GLOBAL	reject
>>PDSCH ID	M		9.2.3.10		-	
>>TDD Channelisation Code	M		9.2.3.19		-	
>>Burst Type	M		9.2.3.2		-	
>>Midamble Shift and Burst Type	M		9.2.3.7		-	
>>Time Slot	M		9.2.3.23		-	
>>Repetition Period	M		9.2.3.16		-	
>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>Repetition Length	O		9.2.3.15		-	
>>TFCI Presence	M		9.2.1.57		-	
<b>PDSCH Sets to Delete</b>		<i>0..&lt;maxnoof PDSCHSets &gt;</i>			GLOBAL	reject
>PDSCH Set Id	M		9.2.3.11		-	
<b>PUSCH Sets to add</b>		<i>0..&lt;maxnoof PUSCHSets &gt;</i>			GLOBAL	reject
>PUSCH Set Id	M		9.2.3.13		-	
<b>&gt;PUSCH Information</b>		<i>0..&lt;maxnoof PUSCH&gt;</i>			GLOBAL	reject
>>PUSCH ID	M		9.2.3.12		-	
>>TDD Channelisation Code	M		9.2.3.19		-	
>>Burst Type	M		9.2.3.2		-	
>>Midamble Shift and Burst Type	M		9.2.3.7		-	
>>Time Slot	M		9.2.3.23		-	
>>Repetition Period	M		9.2.3.16		-	
>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>Repetition Length	O		9.2.3.15		-	
>>TFCI Presence	M				-	
<b>PUSCH Sets to Modify</b>		<i>0..&lt;maxnoof PUSCHSets &gt;</i>			GLOBAL	reject
>PUSCH Set Id	M		9.2.3.13		-	
<b>&gt;PUSCH Information</b>		<i>0..&lt;maxnoof PUSCH&gt;</i>			GLOBAL	reject
>>PUSCH ID	M		9.2.3.12		-	
>>TDD Channelisation Code	M		9.2.3.19		-	
>>Burst Type	M		9.2.3.2		-	
>>Midamble Shift and Burst Type	M		9.2.3.7		-	
>>Time Slot	M		9.2.3.23		-	
>>Repetition Period	M		9.2.3.16		-	
>>TDD Physical Channel Offset	O		9.2.3.20		-	
>>Repetition Length	O		9.2.3.15		-	
>>TFCI Presence	M		9.2.1.57		-	
<b>PUSCH Sets to Delete</b>		<i>0..&lt;maxnoof PUSCHSets &gt;</i>			GLOBAL	reject
>PUSCH Set Id	M		9.2.3.13		-	

Range bound	Explanation
<i>Maxnoof PDSCH Sets</i>	Maximum number of PDSCH Sets in a cell.
<i>Maxnoof PDSCH</i>	Maximum number of PDSCH in a cell.
<i>Maxnoof PUSCH Sets</i>	Maximum number of PUSCH Sets in a cell.
<i>Maxnoof PUSCH</i>	Maximum number of PUSCH in a cell.

### 9.1.63 PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Criticality diagnostics	O		9.2.1.17		YES	ignore

### 9.1.64 PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE [TDD]

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
CHOICE <i>cause level</i>						
> <i>General</i>					YES	ignore
>> <i>Cause</i>	M					
> <i>Set specific</i>					YES	ignore
>>Unsuccessful DL Shared channel set		0..<maxnoof PDSCHSets >			EACH	ignore
>>>PDSCH Set ID	M				-	
>>>Cause	M		9.2.1.6		YES	ignore
>>Unsuccessful UL Shared channel set		0..<maxnoof PUSCHSets >			EACH	ignore
>>>PUSCH Set ID	M				-	
>>>Cause	M				-	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
<i>Maxnoof PDSCH Sets</i>	Maximum number of PDSCH Sets in a cell.
<i>Maxnoof PUSCH Sets</i>	Maximum number of PUSCH Sets in a cell.



### 9.2.3.2 Burst TypeVoid

The Burst Type as described in [19].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
<u>Burst Type</u>			ENUMERATED (Type1, Type2)	

### 9.2.3.3 CCTrCH ID

The CCTrCH ID identifies unambiguously a CCTrCH inside a Radio Link.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CCTrCH ID			INTEGER (0..15)	

### 9.2.3.4 Cell Parameter ID

The Cell Parameter ID identifies unambiguously the Code Groups, Scrambling Codes, Midambles and Toffset (see table 9 of [20])

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Cell Parameter ID			INTEGER (0..127)	

### 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Constant Value			INTEGER (-10..10)	Unit dB Granularity 1 dB.

### 9.2.3.4B DL Timeslot ISCP

DL Timeslot ISCP is the measured interference in a downlink timeslot at the UE, see ref. [5].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL Timeslot ISCP			INTEGER (0..91)	According to mapping in [5].

### 9.2.3.5 DPCH ID

The DPCH ID identifies unambiguously a DPCH inside a Radio Link.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DPCH ID	M		INTEGER (0..239)	

### 9.2.3.6 Max PRACH Midamble shift

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Max PRACH Midamble Shifts			ENUMERATED (4, 8)	

### 9.2.3.7 Midamble shift and burst type

Different bursts transmitted simultaneously, using the same midamble code shall use different Midamble Shifts.

This information element indicates burst type and midamble allocation.

The 256 chip midamble supports 3 different time shifts, the 512 chips midamble may support 8 or even 16 time shifts.

The range of this parameter is 0 .. 15 for long midamble and 0 .. 2 for short midamble.

Three different midamble allocation schemes exist:

Default midamble: the midamble shift is selected by layer 1 depending on the associated channelisation code (DL and UL)

Common midamble: the midamble shift is chosen 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
<u>CHOICE Burst Type</u>				
<u>&gt;Type 1</u>				
<u>&gt;&gt;Midamble Allocation Mode</u>	<u>M</u>		<u>Enumerated (Default midamble, Common midamble, UE specific midamble)</u>	
<u>&gt;&gt;Midamble Shift</u>	<u>C-UE</u>		<u>Integer(0..15)</u>	
<u>&gt;Type 2</u>				
<u>&gt;&gt;Midamble Allocation Mode</u>	<u>M</u>		<u>Enumerated (Default midamble, Common midamble, UE specific midamble)</u>	
<u>&gt;&gt;Midamble Shift</u>	<u>C-UE</u>		<u>INTEGER (0..45)</u>	
<u>&gt;Type 3</u>				<u>UL only</u>
<u>&gt;&gt;Midamble Allocation Mode</u>	<u>M</u>		<u>Enumerated (Default midamble, UE specific midamble)</u>	
<u>&gt;&gt;Midamble Shift</u>	<u>C-UE</u>		<u>Integer(0..15)</u>	

<u>Condition</u>	<u>Explanation</u>
<u>C-UE</u>	This information element is only sent when the value of the "Midamble Allocation Mode" IE is "UE-specific midamble".

### 9.3.3 NBAP PDU Content Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCTrCH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
    Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    ConfigurationGenerationID,
    ConstantValue,
    CriticalityDiagnostics,
    CPCH-Allowed-Total-Rate,

```

```
CPCHScramblingCodeNumber,  
CPCH-UL-DPCCH-SlotFormat,  
CRNC-CommunicationContextID,  
DCH-ID,  
DedicatedChannelsCapacityConsumptionLaw,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DLPowerAveragingWindowSize,  
DL-ScramblingCode,  
DL-TimeslotISCP,  
DL-TPC-Pattern01Count,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FrameHandlingPriority,  
FrameOffset,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
Max-Number-of-PCPCHes,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShiftAndBurstType,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NEOT,  
NFmax,  
N-INSYNC-IND,  
N-OUTSYNC-IND,  
NodeB-CommunicationContextID,  
NStartMessage,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,
```

PCCPCH-Power,  
PCP-Length,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerOffset,  
PowerRaiseLimit,  
PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
ScramblingCodeNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
T-RLFAILURE,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TimeSlot,

TimeSlotDirection,  
TimeSlotStatus,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,  
  
TransmissionGapPatternSequenceCodeInformation,  
Transmission-Gap-Pattern-Sequence-Information,  
TransportFormatSet,  
TransportLayerAddress,  
TSTD-Indicator,  
UARFCN,  
UL-CapacityCredit,  
UL-DPCCH-SlotFormat,  
UL-SIR,  
UL-FP-Mode,  
UL-InterferenceLevel,  
UL-ScramblingCode,  
USCH-ID  
FROM NBAP-IEs

| --- partly omitted

```

-- *****
--
-- 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,
    ...
}

Secondary-CCPCH-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ Secondary-CCPCHIE-CTCH-SetupRqstTDD }}

Secondary-CCPCHIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCHItem-CTCH-SetupRqstTDD  CRITICALITY reject  TYPE Secondary-CCPCHItem-CTCH-SetupRqstTDD  PRESENCE mandatory },
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS              TFCS,
    secondaryCCPCH-parameterList  Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD,
    iE-Extensions    ProtocolExtensionContainer  {{Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs}}  OPTIONAL,
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```



```

Secondary-CCPCH-parameterList-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD }}

Secondary-CCPCH-parameterListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD  CRITICALITY reject  TYPE Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD  PRESENCE
  mandatory },
  ...
}

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,
  burstType                    BurstType,
  midambleShiftandBurstType      MidambleShiftAndBurstType,
  tdd-PhysicalChannelOffset        TDD-PhysicalChannelOffset,
  repetitionPeriod                 RepetitionPeriod,
  repetitionLength                 RepetitionLength,
  s-CCPCH-Power                    DL-Power,
  fACH-ParametersList              FACH-ParametersList-CTCH-SetupRqstTDD          OPTIONAL,
  pCH-Parameters                   PCH-Parameters-CTCH-SetupRqstTDD          OPTIONAL,
  -- One of the channels FACH or PCH or both must be present
  iE-Extensions                    ProtocolExtensionContainer { { Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs } }  OPTIONAL,
  ...
}

Secondary-CCPCH-parameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

FACH-ParametersList-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstTDD }}

FACH-ParametersListIEs-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { 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,
  dl-TransportFormatSet           TransportFormatSet,
  toAWS                            ToAWS,
  toAWE                            ToAWE,
  iE-Extensions                   ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs } }  OPTIONAL,
  ...
}

FACH-ParametersItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

PCH-Parameters-CTCH-SetupRqstTDD ::= ProtocolIE-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,
  dl-TransportFormatSet             TransportFormatSet,
  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 ::= {
  ...
}

PICH-Parameters-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  tdd-ChannelisationCode           TDD-ChannelisationCode,
  timeSlot                         TimeSlot,
  burstType                   BurstType OPTIONAL,
  midambleShiftAndBurstType        MidambleShiftAndBurstType,
  tdd-PhysicalChannelOffset         TDD-PhysicalChannelOffset,
  repetitionPeriod                 RepetitionPeriod,
  repetitionLength                 RepetitionLength,
  pagingIndicatorLength            PagingIndicatorLength,
  pICH-Power                       DL-Power,
  iE-Extensions                     ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstTDD-ExtIEs } }   OPTIONAL,
  ...
}

PICH-Parameters-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PRACH-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ PRACHIE-CTCH-SetupRqstTDD }}

PRACHIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
  { ID id-PRACHItem-CTCH-SetupRqstTDD   CRITICALITY reject   TYPE PRACHItem-CTCH-SetupRqstTDD   PRESENCE mandatory },
  ...
}

PRACHItem-CTCH-SetupRqstTDD ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  timeslot                         TimeSlot,
  tdd-ChannelisationCode           TDD-ChannelisationCode,
  maxPRACH-MidambleShifts         MaxPRACH-MidambleShifts   OPTIONAL,
  PRACH-Midamble                  PRACH-Midamble,
}

```

```

    rACH
    iE-Extensions
    ...
}

PRACHItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-Parameter-CTCH-SetupRqstTDD ::= ProtocolIE-Container {{ RACH-ParameterIE-CTCH-SetupRqstTDD }}

RACH-ParameterIE-CTCH-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-ParameterItem-CTCH-SetupRqstTDD    CRITICALITY reject    TYPE RACH-ParameterItem-CTCH-SetupRqstTDD    PRESENCE mandatory },
    ...
}

RACH-ParameterItem-CTCH-SetupRqstTDD ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    iE-Extensions                     ProtocolExtensionContainer { { RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

RACH-ParameterItem-CTCH-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

| --- partly omitted ---

```

-- *****
--
-- 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-UL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE UL-DPCH-InformationList-RL-SetupRqstTDD
    PRESENCE optional }|
    { ID      id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD
    PRESENCE optional }|
    { ID      id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE DL-DPCH-InformationList-RL-SetupRqstTDD
    PRESENCE optional }|
    { ID      id-DCH-InformationList-RL-SetupRqstTDD   CRITICALITY reject          TYPE DCH-InformationList-RL-SetupRqstTDD
    PRESENCE optional }|
    { ID      id-DSCH-InformationList-RL-SetupRqstTDD  CRITICALITY reject          TYPE DSCH-InformationList-RL-SetupRqstTDD
    PRESENCE optional }|
    { ID      id-USCH-InformationList-RL-SetupRqstTDD  CRITICALITY reject          TYPE USCH-InformationList-RL-SetupRqstTDD
    PRESENCE optional }|
    { ID      id-RL-Information-RL-SetupRqstTDD        CRITICALITY reject          TYPE RL-Information-RL-SetupRqstTDD
    PRESENCE mandatory },
    ...
}

RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF
    ProtocolIE-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               TFCS,
    tFCI-Coding        TFCI-Coding,
}

```

```

    punctureLimit          PunctureLimit,
    iE-Extensions          ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationItem-RL-SetupRqstTDD

UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType           BurstType,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container{{ DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD }}

DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD          CRITICALITY    notify          TYPE DL-CCTrCH-InformationItem-RL-SetupRqstTDD
      PRESENCE    mandatory},
    ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID            CCTrCH-ID,
    tFCS                 TFCS,
    tFCI-Coding          TFCI-Coding,
    punctureLimit        PunctureLimit,
    tdd-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize,
    iE-Extensions        ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationItem-RL-SetupRqstTDD

```

```

DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType            BurstType,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    timeslot                Timeslot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tFCI-Presence           TFCI-Presence,
    iE-Extensions           ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstTDD

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                   UL-FP-Mode,
    toAWS                         ToAWS,
    toAWE                         ToAWE,
    dCH-SpecificInformationList  DCH-SpecificInformationList-RL-SetupRqstTDD,
    iE-Extensions                ProtocolExtensionContainer { { DCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-SpecificInformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstTDD

DCH-SpecificItem-RL-SetupRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    qE-Selector           QE-Selector,
    iE-Extensions         ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

DSCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstTDD

```
DSCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    frameHandlingPriority  FrameHandlingPriority,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}
```

```
DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

USCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem-RL-SetupRqstTDD

```
USCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    qE-Selector            QE-Selector,
    iE-Extensions         ProtocolExtensionContainer { { USCH-InformationItemIE-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}
```

```
USCH-InformationItemIE-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
RL-Information-RL-SetupRqstTDD ::= SEQUENCE {
    rL-ID                  RL-ID,
    c-ID                   C-ID,
    frameOffset            FrameOffset,
    initialDL-transmissionPower DL-Power,
    maximumDL-power        DL-Power,
    minimumDL-power        DL-Power,
    iE-Extensions         ProtocolExtensionContainer { { RL-Information-RL-SetupRqstTDD-ExtIEs} } OPTIONAL,
    ...
}
```

```
RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

| ---- partly omitted ----

```

-- *****
--
-- RADIO LINK ADDITION REQUEST TDD
--
-- *****

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-UL-DPCH-InformationList-RL-AdditionRqstTDD      CRITICALITY    notify         TYPE    UL-DPCH-InformationList-RL-AdditionRqstTDD
    PRESENCE  optional }|
    { ID      id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD    CRITICALITY    reject          TYPE    DL-CCTrCH-InformationList-RL-AdditionRqstTDD
    PRESENCE  optional }|
    { ID      id-DL-DPCH-InformationList-RL-AdditionRqstTDD      CRITICALITY    notify         TYPE    DL-DPCH-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 ::= {
    ...
}

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,
    iE-Extensions      ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF ProtocolIE-Container {{ UL-DPCH-InformationItemIE-RL-AdditionRqstTDD }}

UL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-UL-DPCH-InformationItem-RL-AdditionRqstTDD      CRITICALITY    notify          TYPE    UL-DPCH-InformationItem-RL-AdditionRqstTDD
    PRESENCE  mandatory },
    ...
}

```



```

}

UL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType                BurstType,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    timeSlot                TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tFCI-Presence           TFCI-Presence,
    iE-Extensions           ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-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 {
    cCTrCH-ID                CCTrCH-ID,
    iE-Extensions           ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationList-RL-AdditionRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF ProtocolIE-Container {{ DL-DPCH-InformationItemIE-RL-AdditionRqstTDD }}

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 {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType                BurstType,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    timeSlot                TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tFCI-Presence           TFCI-Presence,
    iE-Extensions           ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

}

DL-DPCH-InformationItem-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,
    iE-Extensions        ProtocolExtensionContainer { { RL-information-RL-AdditionRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

RL-information-RL-AdditionRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
| --- partly omitted ---

```

```
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****
```

```
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-DCH-ModifyList-RL-ReconfPrepTDD          CRITICALITY  reject      TYPE  DCH-ModifyList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-DCH-AddList-RL-ReconfPrepTDD          CRITICALITY  reject      TYPE  DCH-AddList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-DCH-DeleteList-RL-ReconfPrepTDD          CRITICALITY  reject      TYPE  DCH-DeleteList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-DSCH-Information-ModifyList-RL-ReconfPrepTDD          CRITICALITY  reject      TYPE  DSCH-Information-ModifyList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-DSCH-information-AddList-RL-ReconfPrepTDD          CRITICALITY  reject      TYPE  DSCH-Information-AddList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-DSCH-Information-DeleteList-RL-ReconfPrepTDD          CRITICALITY  reject      TYPE  DSCH-Information-DeleteList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-USCH-Information-ModifyList-RL-ReconfPrepTDD          CRITICALITY  reject      TYPE  USCH-Information-ModifyList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-USCH-information-AddList-RL-ReconfPrepTDD          CRITICALITY  reject      TYPE  USCH-Information-AddList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-USCH-Information-DeleteList-RL-ReconfPrepTDD          CRITICALITY  reject      TYPE  USCH-Information-DeleteList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-RL-Information-RL-ReconfPrepTDD          CRITICALITY  reject      TYPE  RL-Information-RL-ReconfPrepTDD
  PRESENCE  optional },
  ...
}
```

```
RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```

}

UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS              TFCS,
    tFCI-Coding       TFCI-Coding,
    punctureLimit     PunctureLimit,
    ul-DPCH-InformationList  UL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions     ProtocolExtensionContainer { { UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-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-InformationAddListIE-RL-ReconfPrepTDD          PRESENCE
    mandatory },
    ...
}

UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationAddItem-RL-ReconfPrepTDD

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID          DPCH-ID,
    tDD-ChannelisationCode  TDD-ChannelisationCode,
    burstType          BurstType,
    midambleShiftAndBurstType  MidambleShiftAndBurstType,
    timeSlot         TimeSlot,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
    repetitionPeriod  RepetitionPeriod,
    repetitionLength  RepetitionLength,
    tFCI-Presence     TFCI-Presence,
    iE-Extensions     ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationModifyList-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,
    ul-DPCH-InformationModifyList       UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD    OPTIONAL,
    ul-DPCH-InformationDeleteList       UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD    OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-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-AddListIE-RL-
ReconfPrepTDD          PRESENCE mandatory },
    ...
}

UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD

UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType           BurstType,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    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-Container {{ UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD    CRITICALITY reject          TYPE UL-DPCH-InformationModify-ModifyListIE-RL-
ReconfPrepTDD          PRESENCE mandatory },
    ...
}

UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-ModifyItem-RL-
ReconfPrepTDD

UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {

```

dPCH-ID	DPCH-ID,	
tDD-ChannelisationCode	TDD-ChannelisationCode	OPTIONAL,
<del>burstType</del>	<del>BurstType</del>	<del>OPTIONAL,</del>
midambleShiftAndBurstType	MidambleShiftAndBurstType	OPTIONAL,
timeSlot	TimeSlot	OPTIONAL,
tdd-PhysicalChannelOffset	TDD-PhysicalChannelOffset	OPTIONAL,
repetitionPeriod	RepetitionPeriod	OPTIONAL,
repetitionLength	RepetitionLength	OPTIONAL,
tFCI-Presence	TFCI-Presence	OPTIONAL,
iE-Extensions	ProtocolExtensionContainer	{ { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,		
...		

}  
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
...  
}  
UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-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 } }  
OPTIONAL,  
...  
}  
UL-DPCH-InformationModify-DeleteItem-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 {  
cCTrCH-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              TFCS,
    tFCI-Coding      TFCI-Coding,
    punctureLimit    PunctureLimit,
    dl-DPCH-InformationList DL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions    ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD PRESENCE
    mandatory },
    ...
}

DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationAddItem-RL-ReconfPrepTDD

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dpch-ID          DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType BurstType,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    timeSlot        TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tFCI-Presence   TFCI-Presence,
    iE-Extensions  ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-DPCH-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,
    tFCS              TFCS OPTIONAL,
    tFCI-Coding      TFCI-Coding OPTIONAL,
    punctureLimit    PunctureLimit OPTIONAL,
    dl-DPCH-InformationAddList DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD OPTIONAL,
    dl-DPCH-InformationModifyList DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD OPTIONAL,

```

```

dl-DPCH-InformationDeleteList
iE-Extensions
OPTIONAL,
...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
{ ID id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE DL-DPCH-InformationModify-AddListIE-RL-
ReconfPrepTDD          PRESENCE mandatory },
...
}

DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
dPCH-ID                DPCH-ID,
tdd-ChannelisationCode TDD-ChannelisationCode,
burstType           BurstType,
midambleShiftAndBurstType MidambleShiftAndBurstType,
timeSlot              TimeSlot,
tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
repetitionPeriod      RepetitionPeriod,
rpetitionLength       RepetitionLength,
tFCI-Presence         TFCI-Presence,
iE-Extensions         ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,
...
}

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
{ ID id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE DL-DPCH-InformationModify-ModifyListIE-RL-
ReconfPrepTDD          PRESENCE mandatory },
...
}

DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-ModifyItem-RL-
ReconfPrepTDD

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
dPCH-ID                DPCH-ID,
tdd-ChannelisationCode TDD-ChannelisationCode          OPTIONAL,

```



<del>burstType</del>	<del>BurstType</del>	<del>OPTIONAL,</del>
midambleShiftAndBurstType	MidambleShiftAndBurstType	OPTIONAL,
timeSlot	TimeSlot	OPTIONAL,
tdd-PhysicalChannelOffset	TDD-PhysicalChannelOffset	OPTIONAL,
repetitionPeriod	RepetitionPeriod	OPTIONAL,
rpertitionLength	RepetitionLength	OPTIONAL,
tFCI-Presence	TFCI-Presence	OPTIONAL,
iE-Extensions	ProtocolExtensionContainer { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }	
OPTIONAL,		
...		
}		

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

}

DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

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-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-ExtIEs} }

OPTIONAL,

...

}

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

...

}

DCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepTDD

```

DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    ul-FP-Mode          UL-FP-Mode          OPTIONAL,
    toAWS              ToAWS              OPTIONAL,
    toAWE              ToAWE              OPTIONAL,
    dCH-SpecificInformationList  DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions      ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepTDD

DCH-ModifySpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    ul-cCTrCH-ID       CCTrCH-ID          OPTIONAL,
    dl-cCTrCH-ID       CCTrCH-ID          OPTIONAL,
    ul-TransportFormatSet  TransportFormatSet    OPTIONAL,
    dl-TransportFormatSet  TransportFormatSet    OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority    OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepTDD

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
    ul-FP-Mode                    UL-FP-Mode,
    toAWS                          ToAWS,
    toAWE                          ToAWE,
    dCH-SpecificInformationList    DCH-AddSpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions                  ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddSpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepTDD

DCH-AddSpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    ul-CCTrCH-ID       CCTrCH-ID,
    dl-CCTrCH-ID       CCTrCH-ID,
    ul-TransportFormatSet  TransportFormatSet,

```

```

    dl-TransportFormatSet
    frameHandlingPriority
    qE-Selector
    iE-Extensions
    ...
}

DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD

DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID
    iE-Extensions
    ...
    DCH-ID,
    ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }    OPTIONAL,
}

DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD

DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID
    cCTrCH-ID
    transportFormatSet
    frameHandlingPriority
    toAWS
    toAWE
    iE-Extensions
    ...
    DSCH-ID,
    CCTrCH-ID
    TransportFormatSet
    FrameHandlingPriority
    ToAWS
    ToAWE
    ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }    OPTIONAL,
}

DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-AddItem-RL-ReconfPrepTDD

DSCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID
    cCTrCH-ID
    transportFormatSet
    frameHandlingPriority
    toAWS
    toAWE
    iE-Extensions
    ...
    DSCH-ID,
    CCTrCH-ID,
    TransportFormatSet,
    FrameHandlingPriority
    ToAWS,
    ToAWE,
    ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs } }    OPTIONAL,
}

```

```

DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD

DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD

USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatSet     TransportFormatSet OPTIONAL,
    cCTrCH-ID              CCTrCH-ID OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-AddItem-RL-ReconfPrepTDD

USCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    qE-Selector            QE-Selector,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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 ::= {
    ...
}

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 ::= {
    ...
}

| --- partly omitted ---
```

```

-- *****
--
-- 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-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 ::= {
    ...
}

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,
    iE-Extensions        ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}

PDSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {

```

```

    {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-AddListIE-PSCH-ReconfRqst PRESENCE
      mandatory},
    ...
  }

```

PDSCH-Information-AddListIE-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF PDSCH-Information-AddItem-PSCH-ReconfRqst

```

PDSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID PDSCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  burstType BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,
  timeSlot TimeSlot,
  repetitionPeriod RepetitionPeriod,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  repetitionLength RepetitionLength OPTIONAL,
  tFCI-Presence TFCI-Presence,
  iE-Extensions ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

```

```

PDSCH-Information-AddItem-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 OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { {PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
  ...
}

```

```

PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

```

PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
  {ID id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-ModifyListIE-PSCH-ReconfRqst
    PRESENCE mandatory},
  ...
}

```

PDSCH-Information-ModifyListIE-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF PDSCH-Information-ModifyItem-PSCH-ReconfRqst

```

PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID PDSCH-ID,
  tdd-ChannelisationCode TDD-ChannelisationCode,
  burstType BurstType,
  midambleShiftAndBurstType MidambleShiftAndBurstType,

```

```

timeSlot                TimeSlot,
repetitionPeriod        RepetitionPeriod,
tdd-PhysicalChannelOffset  OPTIONAL,
repetitionLength        RepetitionLength  OPTIONAL,
tFCI-Presence           TFCI-Presence,
iE-Extensions           ProtocolExtensionContainer { {PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
...
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

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-Information-AddList-PSCH-ReconfRqst  OPTIONAL,
iE-Extensions              ProtocolExtensionContainer { {PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
...
}

PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

PUSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRqst }}

PUSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
{ID id-PUSCH-Information-AddListIE-PSCH-ReconfRqst  CRITICALITY reject      TYPE      PUSCH-Information-AddListIE-PSCH-ReconfRqst      PRESENCE
mandatory},
...
}

PUSCH-Information-AddListIE-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-Information-AddItem-PSCH-ReconfRqst

PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
pUSCH-ID                PUSCH-ID,
tdd-ChannelisationCode  TDD-ChannelisationCode,
burstType                BurstType,
midambleShiftAndBurstType  MidambleShiftAndBurstType,

```



```

timeSlot                TimeSlot,
repetitionPeriod        RepetitionPeriod,
tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset    OPTIONAL,
repetitionLength        RepetitionLength    OPTIONAL,
tFCI-Presence           TFCI-Presence,
iE-Extensions           ProtocolExtensionContainer { {PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst

PUSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID                PUSCHSet-ID,
    pUSCH-InformationList       PDSCH-Information-ModifyList-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { {PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Container {{ PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst    CRITICALITY reject    TYPE    PUSCH-Information-ModifyListIE-PSCH-ReconfRqst
    PRESENCE    mandatory},
    ...
}

PUSCH-Information-ModifyListIE-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF PUSCH-Information-ModifyItem-PSCH-ReconfRqst

PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                PUSCH-ID,
    tdd-ChannelisationCode   TDD-ChannelisationCode,
    burstType                BurstType,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    timeSlot                TimeSlot,
    repetitionPeriod        RepetitionPeriod,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset    OPTIONAL,
    repetitionLength        RepetitionLength    OPTIONAL,
    tFCI-Presence           TFCI-Presence,
    iE-Extensions           ProtocolExtensionContainer { {PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }    OPTIONAL,
    ...
}

PUSCH-Information-ModifyItem-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 ::= {
    ...
}
```

## 9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

```

--- partly omitted ---

```

-- =====
-- B
-- =====

```

```

BCCH-ModificationTime ::= INTEGER (0..511)
-- Time = BCCH-ModificationTime * 8
-- Range 0 to 4088, step 8
-- All SFN values in which MIB may be mapped are allowed

```

```

BindingID ::= OCTET STRING (SIZE (1..4, ...))

```

```

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.

```

```

BlockSTTD-Indicator ::= ENUMERATED {
    active,
    inactive
}

```

```

BurstType ::= ENUMERATED {
    type1 (1),
    type2 (2),
    ...
}

```

--- partly omitted -----

```

-- =====
-- M
-- =====

MaximumDL-PowerCapability ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

MaxNrOfUL-DPDCHs ::= INTEGER (1..6)

Max-Number-of-PCPCHes ::= INTEGER (1..64)

MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    ...
}

MeasurementAvailabilityIndicator ::= ENUMERATED {
    measurementAvailable,
    measurementnotAvailable
}

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)

MidambleShift ::= INTEGER (0..15)

MidambleShiftAndBurstType ::= CHOICE {
    type1 CHOICE {
        defaultMidamble NULL,
        commonMidamble NULL,
        ueSpecificMidamble MidambleShiftLong
    },
    type2 CHOICE {
        defaultMidamble NULL,
        commonMidamble NULL,
        ueSpecificMidamble MidambleShiftShort
    },
    type3 CHOICE {
        defaultMidamble NULL,
        ueSpecificMidamble MidambleShiftLong
    }
}

MidambleShiftLong ::= INTEGER (0..15)

```

MidambleShiftShort ::= INTEGER (0..5)

```
MinSpreadingFactor ::= ENUMERATED {  
    v4,  
    v16,  
    v32,  
    v64,  
    v128,  
    v256,  
    v512,  
    ...  
}
```

```
MinUL-ChannelisationCodeLength ::= ENUMERATED {  
    v4,  
    v8,  
    v16,  
    v32,  
    v64,  
    v128,  
    v256,  
    ...  
}
```

```
MultiplexingPosition ::= ENUMERATED {  
    fixed,  
    flexible,  
    ...  
}
```

**3GPP/SMG Meeting #15  
Berlin, Germany, 21-25 August 2000**

**Document R3-002206**

e.g. for 3GPP use the format TP-99xxx  
or for SMG, use the format P-99-xxx

<h2 style="margin: 0;">CHANGE REQUEST</h2>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>25.433</b>	<b>CR</b>	<b>200r1</b>
		Current Version: <b>3.2.0</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: <b>TSG RAN #9</b> <small>list expected approval meeting # here ↑</small>	for approval for information <input checked="" type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** 2000-08-08

**Subject:** DSCH corrections

**Work item:**

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:**

Voided sections 9.2.1.28 and 9.2.1.29 because they were replaced by sections 9.2.1.58 and 9.2.1.59, respectively.

Removed duplicate text from 9.2.1.58.

Clarified the text of section 9.2.2.25.

The definition of "DSCH Transport Format Set" in chapter 9.2.1.28 is the following:

*This parameter defines the transport format set for DSCH.*

*Note: the parameters needs to be defined. It may correspond to the DL TFS defined for DCH.*

In the ASN.1, this IE is defined as "DSCH-TFS ::= INTEGER" in order to pass the syntax check.

The "DSCH-TFS" IE is removed and replaced with the "Transport Format Set" IE.

If this CR is not approved, the usage of the DSCH parameters will not be clear in 25.433, which may lead to misunderstandings and faulty designs.

**Clauses affected:** 9.2.1.28, 9.2.1.29, 9.2.1.58, 9.2.2.25, 9.3.3 and 9.3.4.

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:
------------------------------	---	--

**Other  
comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

### 9.2.1.27 DSCH ID

The DSCH ID uniquely identifies a DSCH within a Node B Communication Context.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DSCH ID			INTEGER (0..255)	

### 9.2.1.28 ~~DSCH Transport Format~~ DSCH Transport Format Set

~~Void~~

~~This parameter defines the transport format set for DSCH.~~

~~Note: the parameter need to be defined. It may correspond to the DL TFS defined for DCH~~

### 9.2.1.29 ~~DSCH Transport Format Combination Set~~ DSCH Transport Format Combination Set

~~Void~~

~~This parameter defines the transport format combination set for DSCH.~~

~~Note: to be defined. Each DSCH TFCI also indicates the code to be used~~

~~Note: the parameter need to be defined. It may correspond to the DL TFS defined for DCH~~

### 9.2.1.30 Frame Handling Priority

This parameter indicates the priority level to be used during the lifetime of the DCH/DSCH for temporary restriction of the allocated resources due overload reason.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Frame Handling Priority			INTEGER (0..15)	0=lower priority, 15=higher priority

### 9.2.1.31 Frame Offset

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 lub/lur and least significant 8 bits of SFN (System Frame Number) on Uu. The Frame Offset is UE and cell specific.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Frame Offset			INTEGER (0..255)	Frames

### 9.2.1.32 IB\_SG\_DATA

Segment which is part of an Information Block.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
IB SG DATA			Bit String	"SIB data" in segment as defined in ref: [18].



### 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.

[FDD - Where the UE is assigned access to one or more DSCH transport channels then the UTRAN has the choice of two methods for signalling the mapping between TFCI(field 2) values and the corresponding TFC:

#### Method #1 - TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given transport format combination (value of CTFC(field2)). The CTFC(field2) value specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2) value'. The CTFC(field2) value specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2) value' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value used by the UE in constructing its mapping table starting at the largest value reached in the previous group plus one.

#### Method #2 - Explicit

The mapping between TFCI(field 2) value and CTFC(field2) is spelt out explicitly for each value of TFCI (field2)

]

~~[FDD - Where the UE is assigned access to one or more DSCH transport channels then the UTRAN has the choice of two methods for signalling the mapping between TFCI(field 2) values and the corresponding TFC:~~

#### ~~Method #1 - TFCI range~~

~~The mapping is described in terms of a number of groups, each group corresponding to a given transport format combination (value of CTFC(field2)). The CTFC(field2) value specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2) value'. The CTFC(field2) value specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2) value' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value used by the UE in constructing its mapping table starting at the largest value reached in the previous group plus one.~~

#### ~~Method #2 - Explicit~~

~~The mapping between TFCI(field 2) value and CTFC(field2) is spelt out explicitly for each value of TFCI (field2)~~

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE <i>DSCH</i>				
> <i>No split in TFCI</i>				This choice is made if : a) The TFCS refers to the uplink OR b) The mode is FDD and none of the Node B communication contexts are assigned any DSCH transport channels OR c) The mode is TDD
>>TFCS		1 to <maxnoofTFCs>		The first instance of the parameter corresponds to TFC zero, the second to 1 and so on.
>>>CTFC	M		INTEGER(0..MaxCTFC)	Integer number calculated according to [18]
>>>CHOICE Gain Factors	C-PhysChan			
>>>>Signalled Gain Factors				
>>>>Gain Factor $\beta_c$	M		Integer (0..15)	For UL DPCCH or control part of PRACH or control part of PCPCH in FDD; mapping in accordance to [9]
>>>>Gain Factor $\beta_b$	M		Integer (0..15)	For UL DPDCH or data part of PRACH or data part of PCPCH in FDD; mapping in accordance to [9]
>>>>Reference TFC nr	O		Integer (0..3)	If this TFC is a reference TFC, this IE indicates the reference number
>>>>Computed Gain Factors				
>>>>Reference TFC nr	M		Integer (0..3)	Indicates the reference TFC to be used to calculate the gain factors for this TFC
> <i>There is a split in the TFCI</i>				This choice is made if : a) The TFCS refers to the downlink AND b) The mode is FDD and one of the Node B communication contexts is assigned one or more DSCH transport channels
>>Transport format combination_DCH		1 to <MaxTFCI_1_Comb>		The first instance of the parameter <i>Transport format combination_DCH</i> corresponds to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on.
>>>CTFC(field1)	M		Integer(0..MaxCTFC)	Integer number calculated according to [18]. The calculation of CTFC ignores any DSCH transport channels which may be assigned
>>Choice Signalling method				
>>>TFCI range				
>>>>TFC mapping on DSCH		1 to <MaxNoTFCIGroups>		
>>>>Max TFCI(field2) value	M		Integer(1..1023)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies
>>>>>CTFC(field 2)	M		Integer(0..MaxCTFC)	Integer number calculated according to [18]. The calculation of CTFC ignores any

				DCH transport channels which may be assigned
>>>Explicit				
>>>>Transport format combination_DSCH		1 to <MaxTFCI_2_Combs>		The first instance of the parameter <i>Transport format combination_DSCH</i> corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>>CTFC(field2)	M		Integer(0..MaxCTFC)	Integer number calculated according to [18]. The calculation of CTFC ignores any DCH transport channels which may be assigned

Condition	Explanation
PhysChan	The choice shall be present if the TFCS concerns a UL DPCH or PRACH channel or PCPCH channel in FDD, not when the TFCS is used for other physical channels.

Range bound	Explanation
MaxnoofTFCs	The maximum number of Transport Format Combinations.
MaxTFCI_1_Combs	Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI (field 1))
MaxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI (field 2))
MaxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single value of CTFC(field2) applies
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 [18]

### 9.2.2.25 PDSCH code mapping

~~This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code. There are three ways which the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will typically vary depending on the way in which the UTRAN configures usage of the DSCH.~~

This IE indicates the association between each possible value of TFCI(field 2) and the corresponding PDSCH channelisation code(s). There are three fundamentally different ways that the UTRAN must choose between in order to signal the mapping information, these are described below. The signalling capacity consumed by the different methods will vary depending on the way in which the UTRAN configures usage of the DSCH. A fourth option is also provided which allows the UTRAN to replace individual entries in the TFCI(field 2) to PDSCH code mapping table with new PDSCH code values.

#### Method #1 - Using code range

~~The mapping is described in terms of a number of groups, each group associated with a given spreading factor. The UE maps TFCI(field2) via start' of Group = 1. The PDSCH code used for TFCI( field 2) = 1, is given by the SF and code number = 'PDSCH code start' + 1. This continues, with unit increments in the value of TFC mapping to unit increments in code number up until the point that code number = 'PDSCH code stop'. The process continues in the same way for the next group with the TFCI(field 2) value used by the UE when constructing its mapping table starting at the largest value reached in the previous group plus one. In the event that 'PDSCH code start' = 'PDSCH code lues to PDSCH codes in the following way. The PDSCH code used for TFCI(field 2) = 0, is given by the SF and code number = 'PDSCH code stop' (as may occur when mapping the PDSCH root code to a TFCI (field 2) value) then this is to be interpreted as defining the mapping between the channelisation code and a single TFCI (ie. TFCI(field 2) should not be incremented twice).~~

The mapping is described in terms of a number of groups, each group associated with a given spreading factor. The UE maps TFCI(field2) values to PDSCH codes in the following way. The PDSCH code used for TFCI( field 2) = 0, is given by the SF and code number = 'PDSCH code start' of Group = 1. The PDSCH code used for TFCI( field 2) = 1, is given by the SF and code number = 'PDSCH code start' + 1. This continues, with unit increments in the value of TFC mapping to unit increments in code number up until the point that code number = 'PDSCH code stop'. The process continues in the same way for the next group with the TFCI(field 2) value used by the UE when constructing its mapping table starting at the largest value reached in the previous group plus one. In the event that 'PDSCH code start' = 'PDSCH code stop' (as may occur when mapping the PDSCH root code to a TFCI (field 2) value) then this is to be interpreted as defining the mapping between the channelisation code and a single TFCI (ie. TFCI(field 2) should not be incremented twice).

Note that each value of TFCI (field 2) maps to a given code number and when the 'multi-code info' parameter is greater than 1, then each value of TFCI (field 2) actually maps to a set of PDSCH codes. In this case contiguous codes are assigned, starting at the channelisation code denoted by the 'code number' parameter and including all codes with code numbers up to and including 'code number' - 1 + the value given in the parameter 'multi-code info'.

#### Method #2 - Using TFCI range

~~The mapping is described in terms of a number of groups, each group corresponding to a given PDSCH channelisation code or codes for multicode. The PDSCH code specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2)'. The PDSCH code specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2)' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value starting at the largest value reached in the previous group plus one.~~

#### Method #3 - Explicit

The mapping between TFCI(field 2) value and PDSCH channelisation code is spelt out explicitly for each value of TFCI (field2)

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
DL Scrambling Code	M		INTEGER (0..15)	Scrambling code on which PDSCH is transmitted. 0= Primary scrambling code of the cell 1...15 = Secondary scrambling code

<i>Choice signalling method</i>				
<i>&gt;code range</i>				
>>PDSCH code mapping		1 to <MaxNoCodeGroups>		
>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	
>>multi-code info	M		Integer(1..16)	This parameter indicates the number of PDSCH transmitted to the UE. The PDSCH codes all have the same SF as denoted by the Spreading factor parameter. Contiguous codes are assigned, starting at the channelisation code denoted by the spreading factor and code number parameter and including all codes, with code numbers up to and including 'code number' - 1 + 'multi-code info'. Note that 'code number'-1+'multi-code info' will not be allowed to exceed 'maxCodeNumComp'-1
>>Code number	M		Integer(0..maxCodeNumComp-1)	PDSCH code start, Numbering as described in [18]
>>Code number	M		Integer(0..maxCodeNumComp-1)	PDSCH code stop, Numbering as described in [18]
<i>&gt;TFCI range</i>				
>>DSCH mapping		1 to <MaxNoTFCIGroups>		
>>>Max TFCI(field2) value	M		Integer(1..1023)	This is the maximum value in the range of TFCI(field 2) values for which the specified PDSCH code applies
>>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>multi-code info	M		Integer(1..16)	Semantics as described for this parameter above
>>>Code number	M		Integer(0..maxCodeNumComp-1)	Code number of PDSCH code. Numbering as described in [18]
<i>&gt;Explicit</i>				
>>PDSCH code		1 to MaxTFCI_2_Combs		The first instance of the parameter PDSCH code corresponds to TFCI (field2) = 0, the second to TFCI(field 2) = 1 and so on.
>>>Spreading factor	M		Enumerated(4, 8, 16, 32, 64, 128, 256)	SF of PDSCH code
>>>multi-code info	M		Integer(1..16)	Semantics as described for this parameter above
>>>Code number	M		Integer(0..maxCodeNumComp-1)	Code number of PDSCH code. Numbering as described in [18]

<b>Range Bound</b>	<b>Explanation</b>
MaxCodeNumComp	Maximum number of codes at the defined spreading factor, within the complete code tree.
MaxTFCI_2_Combs	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI field 2)
MaxNoTFCIGroups	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single PDSCH code applies.
MaxNoCodeGroups	Maximum number of groups, each group described in terms of a range of PDSCH channelisation code values for which a single spreading factor applies.

### 9.3.3 NBAP PDU Content Definitions

```
-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    APPreambleSignature,
    ASubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CTrCH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
    Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    ConfigurationGenerationID,
    ConstantValue,
    CriticalityDiagnostics,
    CPCH-Allowed-Total-Rate,
```

```

CPCHScramblingCodeNumber,
CPCH-UL-DPCCH-SlotFormat,
CRNC-CommunicationContextID,
DCH-ID,
DedicatedChannelsCapacityConsumptionLaw,
DedicatedMeasurementType,
DedicatedMeasurementValue,
D-FieldLength,
DiversityControlField,
DiversityMode,
DL-DPCH-SlotFormat,
DL-or-Global-CapacityCredit,
DL-Power,
DLPowerAveragingWindowSize,
DL-ScramblingCode,
DL-TimeslotISCP,
DL-TPC-Pattern01Count,
DPCH-ID,
DSCH-ID,

```

~~to do~~

~~DSCH TFS,~~

```

FDD-DL-ChannelisationCodeNumber,
FDD-S-CCPCH-Offset,
FDD-TPC-DownlinkStepSize,

```

```
-- Partly omitted --
```

```

-- *****
--
-- 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 mandatory }|
    { ID      id-DCH-InformationList-RL-SetupRqstFDD  CRITICALITY reject          TYPE      DCH-InformationList-RL-SetupRqstFDD
    PRESENCE mandatory }|
    { ID      id-DSCH-InformationList-RL-SetupRqstFDD CRITICALITY reject          TYPE      DSCH-InformationList-RL-SetupRqstFDD
    PRESENCE optional   }|
    { 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 ::= {
  ...
}

UL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
  ul-ScramblingCode UL-ScramblingCode,
  minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
  maxNrOFUL-DPDCHs MaxNrOFUL-DPDCHs OPTIONAL,
  -- This IE is present only if "Min UL Channelisation Code length" equals to 4 --
  ul-PunctureLimit PunctureLimit,
  tFCS TFCS,
  ul-DPCCH-SlotFormat UL-DPCCH-SlotFormat,
  ul-SIR-Target UL-SIR,
  diversityMode DiversityMode,
  d-FieldLength D-FieldLength OPTIONAL
  -- This IE is present only if Feed Back mode diversity is activated -- ,
  sSDT-CellID-Length sSDT-CellID-Length OPTIONAL,
  s-FieldLength S-FieldLength OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
  tFCS TFCS,
  dl-DPCH-SlotFormat DL-DPCH-SlotFormat,
  tFCI-SignallingMode TFCI-SignallingMode,
  tFCI-Presence TFCI-Presence OPTIONAL,
  -- this IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16 --
  multiplexingPosition MultiplexingPosition,
  pDSCH-RL-ID RL-ID OPTIONAL,
  -- This IE is present only if the DSCH Information group is present --
  pDSCH-CodeMapping PDSCH-CodeMapping OPTIONAL,
  -- This IE is present only if the DSCH Information group is present --
  powerOffsetInformation PowerOffsetInformation-RL-SetupRqstFDD,
  fdd-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize,
  limitedPowerIncrease LimitedPowerIncrease,
  iE-Extensions ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE {
    p01-ForTFCI-Bits          PowerOffset,
    p02-ForTPC-Bits          PowerOffset,
    p03-ForPilotBits         PowerOffset,
    iE-Extensions            ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstFDD

DCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                   UL-FP-Mode,
    toAWS                         ToAWS,
    toAWE                         ToAWE,
    dCH-SpecificInformationList  DCH-SpecificInformationList-RL-SetupRqstFDD,
    iE-Extensions                ProtocolExtensionContainer { { DCH-InformationItem-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

DCH-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-SpecificInformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstFDD

DCH-SpecificItem-RL-SetupRqstFDD ::= SEQUENCE {
    dCH-ID                       DCH-ID,
    ul-TransportFormatSet        TransportFormatSet,
    dl-TransportFormatSet        TransportFormatSet,
    frameHandlingPriority         FrameHandlingPriority,
    qE-Selector                  QE-Selector,
    iE-Extensions                ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

DCH-SpecificItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationList-RL-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstFDD

DSCH-InformationItem-RL-SetupRqstFDD ::= SEQUENCE {
    dSCH-ID                      DSCH-ID,
    transportFormatSet      TransportFormatSet,
    dSCH-TFS                DSCH-TFS,
    frameHandlingPriority         FrameHandlingPriority,

```

```

    toAWS
    toAWE
    iE-Extensions
    ...
}

DSCH-InformationItem-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- Partly omitted --

```

### 9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

NBAP-IEs
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfTFCs,
    maxNrOfErrors,
    maxCTFC,
    maxNrOfTFs,
    maxTTI-count,
    maxRateMatching,
    maxCodeNrComp-1,
    maxNrOfCodeGroups,
    maxNrOfTFCIGroups,
    maxNrOfTFCI1Combs,
    maxNrOfTFCI2Combs,
    maxNrOfTFCI2Combs-1,
    maxNrOfSF,
    maxTGPS
FROM NBAP-Constants

    Criticality,
    ProcedureCode,
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM NBAP-CommonDataTypes

    ProtocolExtensionContainer{},
    NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;

```

```

-- Partly omitted --

-- =====
-- D
-- =====

DCH-ID ::= INTEGER (0..255)

DedicatedChannelsCapacityConsumptionLaw ::= SEQUENCE ( SIZE(1..maxNrOfSF) ) OF
SEQUENCE {
    dl-Cost      INTEGER (0..65535),
    ul-Cost      INTEGER (0..65535)
}

DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rscp,
    round-trip-time,
    rx-timing-deviation,
    ...
}

DedicatedMeasurementValue ::= CHOICE {
    sIR-Value          SIR-Value,
    sIR-ErrorValue     SIR-Error-Value,
    transmittedCodePowerValue  Transmitted-Code-Power-Value,
    rSCP               RSCP-Value,
    roundTripTime      Round-Trip-Time-Value,
    rxTimingDeviationValue  Rx-Timing-Deviation-Value,
    ...
}

Detected-PCPCH-access-preambles ::= INTEGER (0..240)
-- According to mapping in [4]

D-FieldLength ::= ENUMERATED {
    v1,
    v2,
    ...
}

DeltaSIR ::= INTEGER (0..30)
-- Step 0.1 (Range 0..3).

DiversityControlField ::= ENUMERATED {
    may,
    must,
    must-not,
    ...
}

```

```

}

DiversityMode ::= ENUMERATED {
    none,
    sTTD,
    closed-loop-model,
    closed-loop-mode2,
    ...
}

DL-DPCH-SlotFormat ::= INTEGER (0..16)

DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    ...
}

DL-or-Global-CapacityCredit ::= INTEGER (0..65535)

DL-Power ::= INTEGER (-350..150)
-- DL-Power = power * 10
-- If Power <=-35 DL-Power shall be set to -350
-- if Power >=15 DL-Power shall be set to 150
-- Unit dB, Range -35dB .. +15dB, Step +0.1dB

DLPowerAveragingWindowSize ::= INTEGER (1..60)

DL-ScramblingCode ::= INTEGER (0..15)
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --

DL-TimeslotISCP ::= INTEGER (0..91)

DL-TPC-Pattern01Count ::= INTEGER (0..30,...)

Downlink-Compressed-Mode-Method ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling
}

DPCH-ID ::= INTEGER (0..239)

DSCH-ID ::= INTEGER (0..255)

-- to do
-- the parameter need to be defined. It may correspond to the DL TFS defined for DCH
DSCH-TFS ::= INTEGER

```

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
<b>25.433</b>	<b>CR</b>	<b>203r1</b>	Current Version: <b>3.2.0</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: <b>TSG RAN #9</b> <i>list expected approval meeting # here</i> ↑	For approval For information	<input checked="" type="checkbox"/> <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
*(at least one should be marked with an X)*

**Source:** R-WG3 **Date:** August 2000

**Subject:** BER at UL DTX for TDD

**Work item:**

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:** Physical Channel BER for TDD was removed by WG1 making handling for TDD an open issue.

**Clauses affected:** 8.2.17, 8.3.2, 8.3.5, 9.1.36, 9.1.42, 9.1.47, 9.3

<b>Other specs affected:</b>	Other 3G core specifications <input checked="" type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: 25.225CR16, 25.427CR32, 25.435CR28, 25.423CR171
------------------------------	--	--

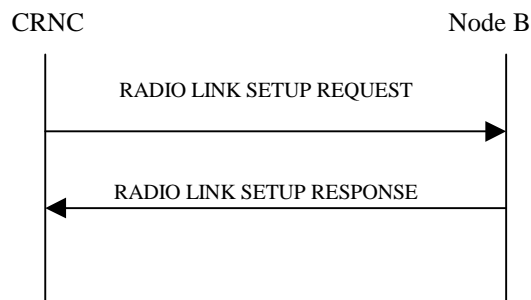
**Other comments:**

## 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.

### 8.2.17.2 Successful Operation



**Figure 1: Radio Link Setup procedure: Successful Operation**

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

Upon reception of 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.

[FDD – The RL Setup procedure can be used to setup one or more radio links. The procedure shall include the establishment of one or more DCHs on all radio links, and in addition, it can include the establishment of one or more DSCHs on one radio link.]

[TDD – The RL Setup procedure is used for setup of one radio link including one or more transport channels. The transport channels can be a mix of DCHs, DSCHs, and USCHs. The Radio Link Setup Request message shall include the required TFS and TFCS for the DCH, DSCH and USCH channels.]

[FDD - The *First RLS Indicator IE* indicates if the concerning RL shall be considered part of the first RLS established towards this UE. If the *First RLS indicator IE* is set to "first RLS", the Node B shall use a TPC pattern of  $n \cdot "01" + "1"$  in the DL of the concerning RL and all RLs which are part of the same RLS, until UL synchronisation is achieved on the Uu. The parameter  $n$  shall be set equal to the value received in the *DL TPC pattern 01 count IE* in the Cell Setup procedure. The TPC pattern shall continuously be repeated but shall be restarted at the beginning of every frame with  $CFN \bmod 4 = 0$ . For all other RLs, the Node B shall use a TPC pattern of all "1"s in the DL until UL synchronisation is achieved on the Uu.]

[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* indicates, "may be combined with already existing RLs", then 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. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Info IE* with multiple *DCH Specific Info IEs* then, the Node B shall treat the DCHs in the *DCH Info 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 - 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* 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]].

~~[TDD - For USCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24]].~~

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 configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

[FDD - If the *Propagation Delay* IE is included, the Node B may use this information to speed up the detection of L1 synchronisation.]

[FDD - The *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.]

[FDD - The Node B shall start the DL transmission using the initial DL power specified in the message on each DL channelisation code of the RL until either UL synchronisation is achieved for the RLS or a DL POWER CONTROL REQUEST message is received. 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], chapter 5.2.1.2) with DPC MODE=0 and the power control procedure (see 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD - The Node B shall start the DL transmission using the initial DL power specified in the message on each DL channelisation code and on each Time Slot of the RL until the UL synchronisation 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], chapter 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

If the DSCH Information Group is present, the Node B shall configure the new DSCH(s) according to the parameters given in the message.

[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 when those are activated.]

[FDD- If the *Downlink compressed mode method* 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 immediately activate the indicated Transmission Gap Pattern Sequences. For each sequence the *TGCFN* refers to the latest passed CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the Node B shall behave as specified in ref. [25].]

[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.]

[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.]



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

If the RLs are successfully setup, the Node B shall start reception on the new RL(s) and respond with a RADIO LINK SETUP RESPONSE message.

[FDD - The Node B shall indicate with the *Diversity Indication* IE whether the RL is combined or not. In case of combining, only the *Reference RL ID* IE shall be included to indicate one of the existing RLs that the concerned RL is combined with. In case of not combining the Node B shall include in the RL SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

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

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

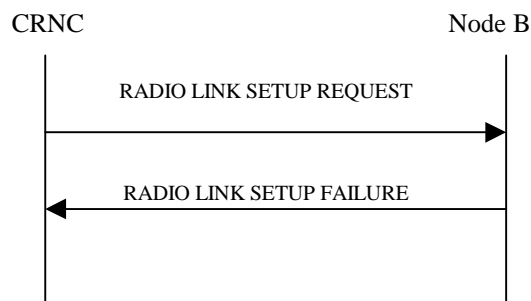
[TDD – The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

In case of coordinated DCH, the *Binding ID* IE and the *Transport Layer Address* IE shall be specify for only one of the coordinated DCHs.

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].

[FDD – When *Diversity Mode* IE is “*STTD*”, “*Closedloop mode1*”, or “*Closedloop mode2*”, the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE]

### 8.2.17.3 Unsuccessful Operation



**Figure 2: Radio Link Setup procedure: Unsuccessful Operation**

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.

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.

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]

[FDD - If the value of the *Diversity Control Field* IE of one RL is 'Must', but the Node B cannot perform the requested combining, Node B shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK SETUP FAILURE message].

[FDD – When the *Diversity Mode* IE equals “*Closedloop mode1*” or “*Closedloop mode2*” and no Closed Loop Timing Adjustment Mode was configured for a cell during cell setup, establishment of the concerning RL shall fail with cause value “*No Closed Loop Timing Adjustment Mode configured*”.]

[FDD – If the Node B cannot provide the requested CM pattern sequences, the Node B shall regard the Radio Link Setup procedure as failed and shall respond with a RADIO LINK SETUP FAILURE message with the cause value "Invalid CM settings".]

Typical cause values are as follows:

**Radio Network Layer Cause**

- RL Already Activated/allocated
- Combining Resources not available
- No Closed Loop Timing Adjustment Mode configured
- Invalid CM Settings.

**Transport Layer Cause**

- Transport Resources Unavailable

**Protocol Cause**

- Semantic error

**Miscellaneous Cause**

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

**8.2.17.4 Abnormal Conditions**

-

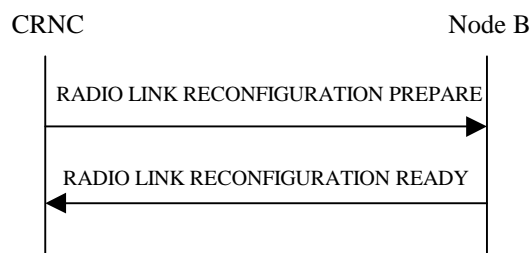
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of all Radio Links related to one UE-UTRAN connection within a Node B.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.2.2 Successful Operation



**Figure 30: Synchronised Radio Link Reconfiguration procedure, Successful Operation**

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE 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.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with 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.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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.

**DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to 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 and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Add IE* with multiple *DCH specific Info* IEs then, 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.

[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* 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]].

~~[TDD - For USCHs with the *QE-Selector IE* set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24].]~~

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point* 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 End Point* in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

**DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

**Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code IE*, the Node B shall apply this *Uplink Scrambling Code* to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the Node B shall apply the new *Uplink Channelisation Code(s)* in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Downlink Channelisation Code* IEs, the Node B shall apply the new *Downlink Channelisation Code(s)* in the new configuration.]

[FDD- If the RADIO LINK RECONFIGURATION PREPARE contains the *Transmission Gap Pattern Sequence Code Information IE* for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

[FDD - The Node B shall use the *TFCS IE* for the UL 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 - The Node B shall use the *TFCS IE* for the DL 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 RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCH Structure IE*, group the Node B shall set the new Uplink DPCCH Structure to the new configuration.]

If the RADIO LINK RECONFIGURATION PREPARE includes the *Maximum DL Power IE*, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target IE*, the Node B shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

If the RADIO LINK RECONFIGURATION PREPARE 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase IE* and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase IE* and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

#### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any of *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 RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be added , the Node B shall include this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be deleted, the Node B shall remove this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be modified, and includes any of *TDD Channelisation Code IE*, *Burst Type IE*, *Midamble shift 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 DPCH are still applicable.]

#### [TDD – UL/DL CCTrCH Addition]

[TDD -If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be added , the Node B shall include this CCTrCH in the new configuration.]

[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.]

#### SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication IE* set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity IE* and *SSDT Cell Identity Length IE* in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication IE* set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]

#### DSCH [TDD – and/or USCH] Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes DSCH information for the DSCHs to be added/modified/deleted 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. The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH code mapping IE* then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes. ]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[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 NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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 exist a Prepared Reconfiguration, as defined in chapter 3.1.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub DCH-information-response IE group shall be included only for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, the RL Information Response IE group shall be included only for one of the combined RLs.

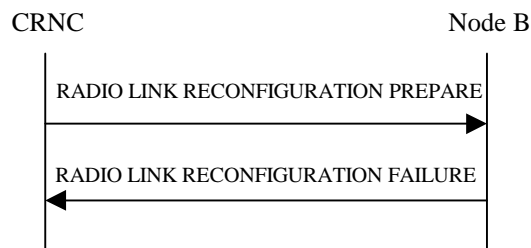
#### Compressed Mode Preparation:

[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.]

#### RL Information:

[TDD - If the *DL Time Slot ISCP* IE is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]

### 8.3.2.3 Unsuccessful Operation



**Figure 31: Synchronised Radio Link Reconfiguration procedure, Unsuccessful Operation**

If the Node B cannot reserve the necessary resources for all the new DCHs of one set of coordinated DCHs requested to be added, it shall regard the Synchronised Radio Link Reconfiguration procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration 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.

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 RECONFIGURATION FAILURE message.

[FDD – If the Node B cannot provide the requested CM pattern sequences, the Node B shall regard the Radio Link Reconfiguration Procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

Typical cause values are as follows:

#### Radio Network Layer Cause

- RL Already Activated/allocated
- Invalid CM Settings.

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

### 8.3.2.4 Abnormal Conditions

If only a subset of all the DCHs belonging to a set of coordinated DCHs is requested to be deleted, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

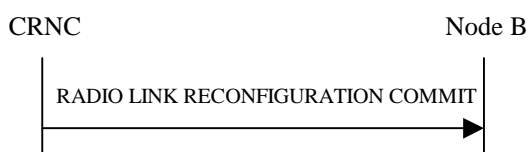
## 8.3.3 Synchronised Radio Link Reconfiguration Commit

### 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 Preparation procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

### 8.3.3.2 Successful Operation



**Figure 32: Synchronised Radio Link Reconfiguration Commit procedure, Successful Operation**

The Node B shall switch to the new configuration previously prepared by the Synchronised RL Reconfiguration procedure at the CFN requested by the CRNC when receiving the RADIO LINK RECONFIGURATION COMMIT message from the CRNC. [FDD – The CFN shall be ignored by Node B if only Transmission Gap Pattern Sequence Information was included in the RL Reconfiguration.] When this procedure has been completed the Prepared Reconfiguration does not exist any more, see chapter 3.1.

[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 CM Configuration Change CFN. From that moment on all Transmission Gap Pattern Sequences included in *Transmission Gap Pattern Sequence Status* IE group repetitions shall be started when the indicated TGCFN elapses. The *CM Configuration Change CFN* in the *Active Pattern Sequence Information* IE and *TGCFN* for each sequence refers to the next coming CFN with that value. If during the compressed mode measurement the gaps of two or more pattern sequences overlap, the Node B shall behave as specified in ref. [25].]

8.3.3.3 Abnormal Conditions

-

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 procedure.

The message shall use the Communication Control Port assigned for this Node B Communication Context.

8.3.4.2 Successful Operation



**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 RL Reconfiguration Preparation procedure and continue using the old configuration. When this procedure has been completed the Prepared Reconfiguration does not exist any more, see chapter 3.1.

8.3.4.3 Abnormal Conditions

-

8.3.5 Unsynchronised Radio Link Reconfiguration

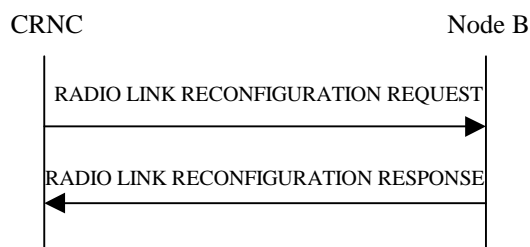
8.3.5.1 General

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 RL 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 chapter 3.1.

8.3.5.2 Successful Operation



**Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation**



The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION REQUEST 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.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Frame Handling Priority* IE for a DCH to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Format Set* IE for the DL a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Modify* IE with 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.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be modified, 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.

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be added to 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 and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Add* IE with multiple *DCH Specific Info* IEs then the *DCH Combination Indicator* IE 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.

**[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* 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]].

~~**[TDD]** - For USCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24]].~~

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the UL, the Node B shall apply the new TFCS in the Uplink of the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]

If the RADIO LINK RECONFIGURATION REQUEST includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

If the RADIO LINK RECONFIGURATION REQUEST 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is 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 contains the *DL Code Information* IE group for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

#### **[TDD - UL/DL CCTrCH Modification]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST 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.]

#### **[TDD – UL/DL CCTrCH Deletion]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any UL or DL CCTrCH to be deleted, the Node B shall not include this CCTrCH in the new configuration.]

#### **DSCH [TDD – and/or USCH] Addition/Modification/Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes DSCH information for the DSCHs to be added/modified/deleted then the NodeB 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. The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *PDSCH code mapping* IE then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes. ]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[TDD - USCH Addition/Modification/Deletion:]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes USCH information for the USCHs to be added/modified/deleted then the NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the DCH-information-response IE group shall be included for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, RL Information Response IE group shall be included only for one of the combined Radio Links.

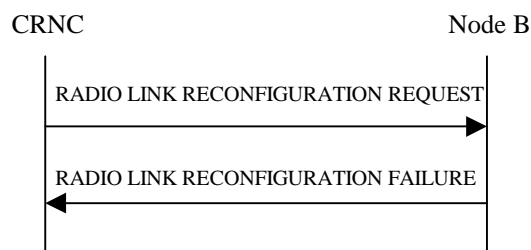
#### Compressed Mode Preparation:

[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.]

#### RL Information:

[TDD - If the *DL Time Slot ISCP* IE is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]

### 8.3.5.3 Unsuccessful Operation



**Figure 35: Unsyncronised Radio Link Reconfiguration procedure, Unsuccessful Operation**

If the Node B cannot allocate the necessary resources for all the new DCHs of one set of coordinated, DCHs requested to be set-up it shall regard the Unsyncronised Radio Link Reconfiguration procedure as having failed.

If the requested Unsyncronised 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.

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 RECONFIGURATION FAILURE message.

[FDD – If the Node B cannot provide the requested CM pattern sequences, the Node B shall regard the Radio Link Reconfiguration Procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value “Invalid CM settings”.]

Typical cause values are as follows:

**Radio Network Layer Cause**

- RL Already Activated/allocated
- Invalid CM Settings.

**Transport Layer Cause**

- Transport Resources Unavailable

**Protocol Cause**

- Semantic error

**Miscellaneous Cause**

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

**8.3.5.4 Abnormal Conditions**

If only a subset of all the DCHs belonging to a set of coordinated 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.

## 9.1.36 RADIO LINK SETUP REQUEST

## 9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.59		–	
>Min UL Channelisation Code length	M		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.21		–	
>puncture limit	M		9.2.1.50	For UL	–	
>TFCS	M		9.2.1.58	for UL	–	
>UL DPCCH Slot Format	M		9.2.2.57		–	
> UL SIR Target	M		UL SIR 9.2.2.58		–	
>Diversity mode	M		9.2.2.29		–	
>D Field Length	C – FB		9.2.2.5		–	
>SSDT cell ID Length	O		9.2.2.45		–	
>S Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>					YES	reject
>TFCS	M		9.2.1.58	For DL	–	
>DL DPCH Slot Format	M		9.2.2.10		–	
>TFCI signalling mode	M		9.2.2.50		–	
>TFCI presence	C- SlotFormat		9.2.1.57		–	
>Multiplexing Position	M		9.2.2.29		–	
>PDSCH RL ID	C-DSCH		RL ID 9.2.1.53		–	
>PDSCH code mapping	C-DSCH		9.2.2.25		–	
<b>&gt;Power Offset Information</b>		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		–	
>Limited Power Increase	M				–	
<b>DCH Information</b>		1 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	

>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For UL	–	
>>Transport Format Set	M		9.2.1.59	For DL	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DSCH Information</b>		0 to <maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For DSCH	–	
>Frame handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>RL Information</b>		1 to <maxnoof RLs>			EACH	notify
>RL ID	M		9.2.1.53		–	
>C-ID	M		9.2.1.9		–	
>First RLS Indicator	M				–	
>Frame Offset	M		9.2.1.31		–	
>Chip Offset	M		9.2.2.2		–	
>Propagation Delay	O		9.2.2.35		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.7		–	
<b>&gt;DL Code Information</b>		1 to <maxnoof-DLCodes>			–	
>>DL Scrambling Code	M		9.2.2.13		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				–	
>Initial DL transmission Power	M		DL Power 9.2.1.21		–	
>Maximum DL power	M		DL Power 9.2.1.21		–	
>Minimum DL power	M		DL Power 9.2.1.21		–	
>SSDT Cell Identity	O		9.2.2.44		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53			
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject

Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.
DSCH	This IE is present only if the DSCH Information group is present
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDLCodes	Maximum number of DL code information.

## 9.1.36.2 TDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH Information</b>		0 to <maxno CCTrCH>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
<b>UL DPCH Information</b>		0 to <maxnoOf DPCH>			GLOBAL	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.1.16		–	
>Repetition Length	M		9.2.1.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>DL CCTrCH Information</b>		0 to <maxno CCTrCH>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
>TDD TPC DL Step Size	M		9.2.3.21			
<b>DL DPCH information</b>		0 to <maxnoOf DPCH>			GLOBAL	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.3.16		–	
>Repetition Length	M		9.2.3.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>DCH Information</b>		0 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	



>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped	–	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.59	For UL	–	
>>Transport Format Set	M		9.2.1.59	For DL	–	
>>Frame Handling Priority	O		9.2.1.30		–	
>>QE-Selector	<a href="#">MC-CoordCH</a>		9.2.1.50A		–	
<b>DSCH Information</b>		0 to <Maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	M		9.2.1.59	For DSCH	–	
>Frame handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>USCH Information</b>		0 to <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M		9.2.1.59	For USCH	–	
<del>&gt;QE-Selector</del>	<del>M</del>		<del>9.2.1.50A</del>		<del>–</del>	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.53		–	
>C-ID	M		9.2.1.9		–	
>Frame Offset	M		9.2.1.31		–	
>Initial DL transmission Power	M		DL Powe 9.2.1.21r		–	
>Maximum DL power	M		DL Power 9.2.1.21		–	
>Minimum DL power	M		DL Power 9.2.1.21		–	

<b>Condition</b>	<b>Explanation</b>
<a href="#">CoordCH</a>	This IE is present only this DCH is part of a set of coordinated DCHs (number of instances of DCH Specific Info is greater than 1).

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of DCHs for one UE
maxnoOfDPCH	Maximum number of DPCH in one CCTrCH
maxnoCCTrCH	Number of CCTrCH for one UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE
MaxnoofUSCHs	Maximum number of USCH for one UE

## 9.1.42 RADIO LINK RECONFIGURATION PREPARE

## 9.1.42.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling code	O		9.2.2.59		–	
>UL SIR Target	O		UL SIR 9.2.2.58			
>Min UL Channelisation Code Length	O		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.20		–	
>Puncture Limit	O		9.2.1.50	For UL	–	
>TFCS	O		9.2.1.58		–	
>UL DPCCH Slot Format	O		9.2.2.57		–	
>SSDT Cell Identity Length	O		9.2.2.45		–	
>S-Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>		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-Slot Format		9.2.1.57		–	
>Multiplexing Position	O		9.2.2.23		–	
>PDSCH code mapping	O		9.2.2.25			
>PDSCH RL ID	O		RL ID 9.2.1.53			
>Limited Power Increase	O				–	
<b>DCHs to Modify</b>		0..<max noofDC Hs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.20		–	
<b>DCHs to Add</b>		0..<max noofDC Hs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP Mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	

>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;max noofDC Hs&gt;</i>			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DCHs to Delete</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH to modify</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	O		9.2.1.59	For the DL.	–	
>Frame Handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH to add</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For the DL.	–	
>Frame Handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH to Delete</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
<b>RL Information</b>		<i>0..&lt;max noofRLs &gt;</i>			EACH	reject
>RL ID	M		9.2.1.53		–	
<b>&gt;DL Code Information</b>		<i>0..&lt;max noofDL Codes&lt;</i>			–	
>>DL Scrambling Code	O		9.2.2.12		–	
>>FDD DL Channelisation Code Number	O		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				–	
>Maximum DL Power	O		DL Power 9.2.1.21		–	
>Minimum DL Power	O		DL Power 9.2.1.21		–	
>SSDT Indication	O		9.2.2.47		–	
>SSDT Cell Identity	C– SSDTIndON		9.2.2.44		–	
Transmission Gap Pattern Sequence Information	O				YES	reject

Condition	Explanation
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.

## 9.1.42.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH to Add</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
<b>&gt;UL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
>>Burst Type	M		9.2.3.2		–	
>>Midamble Shift	M		9.2.3.7		–	
>>Time Slot	M		9.2.3.23		–	
>>TDD Physical channel Offset	M		9.2.3.20		–	
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TFCI Presence	M		9.2.1.57		–	
<b>UL CCTrCH to Modify</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M				–	
>TFCS	O				–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>&gt;UL DPCH to add</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	M				–	
>>Burst Type	M				–	
>>Midamble Shift	M				–	
>>Time Slot	M				–	
>>TDD Physical channel Offset	M				–	
>>Repetition Period	M				–	
>>Repetition Length	M				–	

>>TFCI Presence	M				–	
<b>&gt;UL DPCH to modify</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	O				–	
>>Burst Type	O				–	
>>Midamble Shift	O				–	
>>Time Slot	O				–	
>>TDD Physical channel Offset	O				–	
>>Repetition Period	O				–	
>>Repetition Length	O				–	
>>TFCI Presence	O				–	
<b>&gt;UL DPCH to delete</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
<b>UL CCTrCH to Delete</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M				–	
<b>DL CCTrCH to Add</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>PunctureLimit	M		9.2.1.50		–	
<b>&gt;DL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
>>Burst Type	M		9.2.3.2		–	
>>Midamble Shift	M		9.2.3.7		–	
>>Time Slot	M		9.2.3.23		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TFCI Presence	M		9.2.1.57		–	
<b>DL CCTrCH to Modify</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M				–	
>TFCS	O				–	
>TFCI Coding	O				–	
>PunctureLimit	O				–	

<b>&gt;DL DPCH to add</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	M				-	
>>Burst Type	M				-	
>>Midamble Shift	M				-	
>>Time Slot	M				-	
>>TDD Physical Channel Offset	M				-	
>>Repetition Period	M				-	
>>Repetition Length	M				-	
>>TFCI Presence	M				-	
<b>&gt;DL DPCH to modify</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	O				-	
>>Burst Type	O				-	
>>Midamble Shift	O				-	
>>Time Slot	O				-	
>>TDD Physical Channel Offset	O				-	
>>Repetition Period	O				-	
>>Repetition Length	O				-	
>>TFCI Presence	O				-	
<b>&gt;DL DPCH to delete</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
<b>DL CCTrCH to Delete</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M				-	
<b>DCHs to Modify</b>		0..<max noofDC Hs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		-	
>ToAWS	O		9.2.1.61		-	
>ToAWE	O		9.2.1.60		-	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			-	
>>DCH ID	M		9.2.1.20		-	
>>CCTrCH ID	O		9.2.3.3	UL CCTrCH in which the DCH is mapped.	-	
>>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DCH is mapped	-	
>>Transport Format Set	O		9.2.1.59	For the UL.	-	
>>Transport Format Set	O		9.2.1.59	For the DL.	-	



>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		0..<max noofDC Hs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP Mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
<a href="#">&gt;&gt;QE-Selector</a>	<a href="#">C-CoordCH</a>		<a href="#">9.2.1.50A</a>		=	
<b>DCHs to Delete</b>		0..<max noofDC Hs>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH Information to modify</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	O		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH Information to add</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH Information to delete</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject

>DSCH ID	M		9.2.1.27		–	
<b>USCH Information to modify</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>Transport Format Set	O		9.2.1.59		–	
>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the USCH is mapped	–	
<b>USCH Information to add</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
<del>&gt;QE Selector</del>	<del>M</del>		<del>9.2.1.50A</del>		<del>–</del>	
<b>USCH Information to delete</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
<b>RL Information</b>		0..1			YES	reject
>RL ID	M		9.2.1.53		–	
>Maximum Downlink Power	O		DL Power 9.2.1.21		–	
>Minimum Downlink Power	O		DL Power 9.2.1.21		–	

<u>Condition</u>	<u>Explanation</u>
<a href="#">CoorDCH</a>	<a href="#">This IE is present only this DCH is part of a set of coordinated DCHs (number of instances of DCH Specific Info is greater than 1)</a>

<b>Range Bound</b>	<b>Explanation</b>
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>Maxnoof DPCHs</i>	Maximum number of DPCHs in one CCTrCH.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

## 9.1.47 RADIO LINK RECONFIGURATION REQUEST

## 9.1.47.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.58	For the UL.	–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.58	For the DL.	–	
>TFCI Signalling Mode	O		9.2.2.50		–	
>PDSCH code mapping	O		9.2.2.25			
>PDSCH RL ID	O		RL ID 9.2.1.53			
>Limited Power Increase	O				–	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DCHs to Delete</b>		0..<maxn oofDCHs >			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH to Modify</b>		0..<maxn oofDSCH s>			YES	reject

>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	O		9.2.1.59	For the DL.	–	
>Frame Handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH to Add</b>		<i>0..&lt;maxn oofDSCH s&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For the DL.	–	
>Frame Handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH to Delete</b>		<i>0..1</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
<b>Radio Link Information</b>		<i>0..&lt;maxn oofRLs&gt;</i>			EACH	reject
>RL ID	M		9.2.1.53		–	
>Maximum DL Power	O		DL Power 9.2.1.53		–	
>Minimum DL Power	O		DL Power 9.2.1.53		–	
<b>&gt;DL Code Information</b>	C-SF/2	<i>0..&lt;maxn oofDLCo des&lt;</i>			–	
>>DL Scrambling Code	O				–	
>>FDD DL Channelisation Code Number	O				–	
>>Transmission Gap Pattern sequence Code Information	O				–	
Transmission Gap Pattern Sequence Information	O				YES	reject

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.

Condition	Explanation
SF/2	This IE group is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

## 9.1.47.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CTrCH to modify</b>		0..<maxn oofCTrCHs>			EACH	notify
>CTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
<b>UL CTrCH to delete</b>		0..<maxn oofCTrCHs>			EACH	notify
>CTrCH ID	M				–	
<b>DL CTrCH to modify</b>		0..<maxn oofCTrCHs>			EACH	notify
>CTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
<b>DL CTrCH to delete</b>		0..<maxn oofCTrCHs>			EACH	notify
>CTrCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>CTrCH ID	O		9.2.3.3	UL CTrCH in which the DCH is mapped.	–	
>>CTrCH ID	O		9.2.3.3	DL CTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP Mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	

>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	<a href="#">C- CoordCH M</a>		9.2.1.50A		–	
<b>DCHs to Delete</b>		0..<maxn oofDSCH s>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH Information to modify</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	O		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	O		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH Information to add</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.29		–	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH Information to delete</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
<b>USCH Information to modify</b>		0 .. <Maxnoo f USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the USCH is mapped	–	

>Transport Format Set	O		9.2.1.59		-	
<b>USCH Information to add</b>		0 .. <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		-	
>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the USCH is mapped	-	
>Transport Format Set	M		9.2.1.59		-	
<b>&gt;QE-Selector</b>	<b>M</b>		<b>9.2.1.50A</b>		<b>-</b>	
<b>USCH Information to delete</b>		0 .. <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		-	
<b>RL Information</b>		0..1			YES	reject
>RL ID	M		9.2.1.53		-	
>Maximum Downlink Power	O		DL Power 9.2.1.21		-	
>Minimum Downlink Power	O		DL Power 9.2.1.21		-	
>Time slot ISCP Info		0..<maxn oofDLts>			-	
>>Time slot	M				-	
>>DL Time slot ISCP	M				-	

<b>Condition</b>	<b>Explanation</b>
<a href="#">CoordCH</a>	<a href="#">This IE is present only this DCH is part of a set of coordinated DCHs (number of instances of DCH Specific Info is greater than 1)</a>

<b>Range bound</b>	<b>Explanation</b>
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE
<i>MaxnoofDLts</i>	Maximum number of Downlink time slots per Radio Link

```

-- *****
--
-- 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-UL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE UL-DPCH-InformationList-RL-SetupRqstTDD
      PRESENCE optional }|
    { ID      id-DL-CCTrCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE
      optional }|
    { ID      id-DL-DPCH-InformationList-RL-SetupRqstTDD CRITICALITY notify          TYPE DL-DPCH-InformationList-RL-SetupRqstTDD
      PRESENCE optional }|
    { ID      id-DCH-InformationList-RL-SetupRqstTDD    CRITICALITY reject          TYPE DCH-InformationList-RL-SetupRqstTDD    PRESENCE
      optional }|
    { ID      id-DSCH-InformationList-RL-SetupRqstTDD   CRITICALITY reject          TYPE DSCH-InformationList-RL-SetupRqstTDD   PRESENCE
      optional }|
    { ID      id-USCH-InformationList-RL-SetupRqstTDD   CRITICALITY reject          TYPE USCH-InformationList-RL-SetupRqstTDD   PRESENCE
      optional }|
    { ID      id-RL-Information-RL-SetupRqstTDD        CRITICALITY reject          TYPE RL-Information-RL-SetupRqstTDD        PRESENCE
      mandatory },
    ...
}

RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF
    ProtocolIE-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 {
    cCCTrCH-ID          CCTrCH-ID,
    tFCS                TFCS,

```



```

    tFCI-Coding          TFCI-Coding,
    punctureLimit        PunctureLimit,
    iE-Extensions        ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationItem-RL-SetupRqstTDD

UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dpch-ID              DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType            BurstType,
    midambleShift        MidambleShift,
    timeSlot              TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod      RepetitionPeriod,
    repetitionLength      RepetitionLength,
    tFCI-Presence         TFCI-Presence,
    iE-Extensions        ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container{{ DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD
}}

DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationItem-RL-SetupRqstTDD
    PRESENCE mandatory},
    ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCtRch-ID           CCTrCH-ID,
    tFCS                 TFCS,
    tFCI-Coding          TFCI-Coding,
    punctureLimit        PunctureLimit,
    tdd-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize,
    iE-Extensions        ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

DL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationItem-RL-SetupRqstTDD

DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstTDD

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode                   UL-FP-Mode,
    toAWS                         ToAWS,
    toAWE                         ToAWE,
    dCH-SpecificInformationList  DCH-SpecificInformationList-RL-SetupRqstTDD,
    iE-Extensions                ProtocolExtensionContainer { { DCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-SpecificInformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstTDD

DCH-SpecificItem-RL-SetupRqstTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-CCTrCH-ID         CCTrCH-ID,
    dl-CCTrCH-ID         CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    frameHandlingPriority FrameHandlingPriority OPTIONAL,
    qE-Selector           QE-Selector OPTIONAL,
    -- This IE is present only if DCH is part of set of Coordinated DCHs
    iE-Extensions          ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

}

DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstTDD

DSCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    frameHandlingPriority   FrameHandlingPriority,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem-RL-SetupRqstTDD

USCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    qE-Selector         QE-Selector,
    iE-Extensions          ProtocolExtensionContainer { { USCH-InformationItemIE-RL-SetupRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

USCH-InformationItemIE-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Information-RL-SetupRqstTDD ::= SEQUENCE {
    rL-ID                  RL-ID,
    c-ID                   C-ID,
    frameOffset            FrameOffset,
    initialDL-transmissionPower DL-Power,
    maximumDL-power        DL-Power,
    minimumDL-power        DL-Power,
    iE-Extensions          ProtocolExtensionContainer { { RL-Information-RL-SetupRqstTDD-ExtIEs } }    OPTIONAL,
    ...
}

RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

}

```
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****
```

```
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-DCH-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE  DCH-ModifyList-RL-ReconfPrepTDD
    PRESENCE  optional } |
    { ID      id-DCH-AddList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE  DCH-AddList-RL-ReconfPrepTDD
    PRESENCE  optional } |
    { ID      id-DCH-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE  DCH-DeleteList-RL-ReconfPrepTDD
    PRESENCE  optional } |
    { ID      id-DSCH-Information-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE  DSCH-Information-ModifyList-RL-ReconfPrepTDD
    PRESENCE  optional } |
    { ID      id-DSCH-information-AddList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE  DSCH-Information-AddList-RL-ReconfPrepTDD
    PRESENCE  optional } |
    { ID      id-DSCH-Information-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE  DSCH-Information-DeleteList-RL-ReconfPrepTDD
    PRESENCE  optional } |
    { ID      id-USCH-Information-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE  USCH-Information-ModifyList-RL-ReconfPrepTDD
    PRESENCE  optional } |
    { ID      id-USCH-information-AddList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE  USCH-Information-AddList-RL-ReconfPrepTDD
    PRESENCE  optional } |
    { ID      id-USCH-Information-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE  USCH-Information-DeleteList-RL-ReconfPrepTDD
    PRESENCE  optional } |
    { ID      id-RL-Information-RL-ReconfPrepTDD          CRITICALITY    reject      TYPE  RL-Information-RL-ReconfPrepTDD
    PRESENCE  optional },
    ...
}
```

```

}

RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                      TFCS,
    tFCI-Coding              TFCI-Coding,
    punctureLimit            PunctureLimit,
    ul-DPCH-InformationList  UL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-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-InformationAddListIE-RL-ReconfPrepTDD PRESENCE
    mandatory },
    ...
}

UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationAddItem-RL-ReconfPrepTDD

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions            ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationModifyList-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,
    ul-DPCH-InformationModifyList  UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD  OPTIONAL,
    ul-DPCH-InformationDeleteList  UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD  OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }  OPTIONAL,
    ...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-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-AddListIE-RL-ReconfPrepTDD
    PRESENCE mandatory },
    ...
}

UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD

UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode  TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    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-Container {{ UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE UL-DPCH-InformationModify-ModifyListIE-RL-
    ReconfPrepTDD          PRESENCE mandatory },
    ...
}

```

```

}

UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD

UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode          OPTIONAL,
    burstType              BurstType                        OPTIONAL,
    midambleShift          MidambleShift                    OPTIONAL,
    timeSlot               TimeSlot                          OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset    OPTIONAL,
    repetitionPeriod       RepetitionPeriod                  OPTIONAL,
    repetitionLength       RepetitionLength                  OPTIONAL,
    tFCI-Presence          TFCI-Presence                      OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}

UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-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 } }
    OPTIONAL,
    ...
}

UL-DPCH-InformationModify-DeleteItem-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 {
    cCTrCH-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                    TFCS,
    tFCI-Coding             TFCI-Coding,
    punctureLimit          PunctureLimit,
    dl-DPCH-InformationList DL-DPCH-InformationAddList-RL-ReconfPrepTDD  OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Container { { DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD } }

DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD          PRESENCE
    mandatory },
    ...
}

DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationAddItem-RL-ReconfPrepTDD

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dpch-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }  OPTIONAL,
    ...
}

DL-DPCH-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,
    tFCS              TFCs,                               OPTIONAL,
    tFCI-Coding       TFCI-Coding,                       OPTIONAL,
    punctureLimit     PunctureLimit,                   OPTIONAL,
    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 ::= {
    ...
}

DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD
    PRESENCE mandatory },
    ...
}

DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dpch-ID          DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType        BurstType,
    midambleShift    MidambleShift,
    timeSlot         TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod RepetitionPeriod,
    rpetitionLength  RepetitionLength,
    tFCI-Presence    TFCI-Presence,
    iE-Extensions     ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationModify-ModifyListIE-RL-
    ReconfPrepTDD PRESENCE mandatory },
    ...
}

```

```

}

DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode    OPTIONAL,
    burstType              BurstType                OPTIONAL,
    midambleShift         MidambleShift            OPTIONAL,
    timeSlot              TimeSlot                 OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset  OPTIONAL,
    repetitionPeriod      RepetitionPeriod         OPTIONAL,
    rpetitionLength       RepetitionLength         OPTIONAL,
    tFCI-Presence         TFCI-Presence            OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

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-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-ExtIEs} }
    OPTIONAL,
    ...
}

```

```

}

DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepTDD

DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    ul-FP-Mode          UL-FP-Mode          OPTIONAL,
    toAWS               ToAWS               OPTIONAL,
    toAWE               ToAWE               OPTIONAL,
    dCH-SpecificInformationList  DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions      ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepTDD

DCH-ModifySpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID              DCH-ID,
    ul-cCTrCH-ID       CCTrCH-ID              OPTIONAL,
    dl-cCTrCH-ID       CCTrCH-ID              OPTIONAL,
    ul-TransportFormatSet  TransportFormatSet  OPTIONAL,
    dl-TransportFormatSet  TransportFormatSet  OPTIONAL,
    frameHandlingPriority  FrameHandlingPriority  OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepTDD

DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator  PayloadCRC-PresenceIndicator,
    ul-FP-Mode                    UL-FP-Mode,
    toAWS                          ToAWS,
    toAWE                          ToAWE,
    dCH-SpecificInformationList    DCH-AddSpecificInformationList-RL-ReconfPrepTDD,
    iE-Extensions                  ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

DCH-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
DCH-AddSpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepTDD
DCH-AddSpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID                DCH-ID,
    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    frameHandlingPriority FrameHandlingPriority,
    qE-Selector           QE-Selector OPTIONAL,
    -- This IE is present only if DCH is part of set of Coordinated DCHs
    iE-Extensions         ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}
DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs 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-ExtIEs} } OPTIONAL,
    ...
}
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD
DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID OPTIONAL,
    transportFormatSet     TransportFormatSet OPTIONAL,
    frameHandlingPriority   FrameHandlingPriority OPTIONAL,
    toAWS                  ToAWS OPTIONAL,
    toAWE                  ToAWE OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}
DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

DSCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-AddItem-RL-ReconfPrepTDD

```
DSCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    frameHandlingPriority  FrameHandlingPriority    OPTIONAL,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}
```

```
DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD

```
DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}
```

```
DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD

```
USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatSet     TransportFormatSet    OPTIONAL,
    cCTrCH-ID              CCTrCH-ID            OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}
```

```
USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

USCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-AddItem-RL-ReconfPrepTDD

```
USCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    qE-Selector         QE-Selector,
    iE-Extensions         ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
```

```

}
...
}
USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
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 ::= {
...
}
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 ::= {
...
}

```

```
-- *****
--
-- RADIO LINK RECONFIGURATION REQUEST TDD
--
-- *****
```

```
RadioLinkReconfigurationRequestTDD ::= SEQUENCE {
  protocolIEs          ProtocolIE-Container    {{RadioLinkReconfigurationRequestTDD-IEs}},
  protocolExtensions  ProtocolExtensionContainer {{RadioLinkReconfigurationRequestTDD-Extensions}}  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-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  CRITICALITY  notify          TYPE  UL-CCTrCH-InformationDeleteList-RL-
ReconfRqstTDD  PRESENCE  optional } |
  { ID      id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  CRITICALITY  notify          TYPE  DL-CCTrCH-InformationModifyList-RL-
ReconfRqstTDD  PRESENCE  optional } |
  { ID      id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  CRITICALITY  notify          TYPE  DL-CCTrCH-InformationDeleteList-RL-
ReconfRqstTDD  PRESENCE  optional } |
  { ID      id-DCH-ModifyList-RL-ReconfRqstTDD          CRITICALITY  reject          TYPE  DCH-ModifyList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DCH-AddList-RL-ReconfRqstTDD            CRITICALITY  reject          TYPE  DCH-AddList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DCH-DeleteList-RL-ReconfRqstTDD        CRITICALITY  reject          TYPE  DCH-DeleteList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DSCH-Information-ModifyList-RL-ReconfRqstTDD  CRITICALITY  reject          TYPE  DSCH-Information-ModifyList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DSCH-Information-AddList-RL-ReconfRqstTDD  CRITICALITY  reject          TYPE  DSCH-Information-AddList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-DSCH-Information-DeleteList-RL-ReconfRqstTDD  CRITICALITY  reject          TYPE  DSCH-Information-DeleteList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-USCH-Information-ModifyList-RL-ReconfRqstTDD  CRITICALITY  reject          TYPE  USCH-Information-ModifyList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-USCH-Information-AddList-RL-ReconfRqstTDD  CRITICALITY  reject          TYPE  USCH-Information-AddList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-USCH-Information-DeleteList-RL-ReconfRqstTDD  CRITICALITY  reject          TYPE  USCH-Information-DeleteList-RL-ReconfRqstTDD
  PRESENCE  optional } |
  { ID      id-RL-Information-RL-ReconfRqstTDD          CRITICALITY  ignore          TYPE  RL-Information-RL-ReconfRqstTDD          PRESENCE
  optional },
  ...
}
```

```
RadioLinkReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```



UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-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-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {  
 cCtRch-ID CCTrCH-ID,  
 tFCS TFCS OPTIONAL,  
 punctureLimit PunctureLimit OPTIONAL,  
 iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs } }  
 OPTIONAL,  
 ...  
}

UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
 ...  
}

UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-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-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {  
 cCtRch-ID CCTrCH-ID,  
 iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs } }  
 OPTIONAL,  
 ...  
}

UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
 ...  
}

DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD}}

DL-CCTrCH-InformationModifyItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {  
 { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD PRESENCE mandatory},  
 ...  
}

```

DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    tFCS              TFCs                OPTIONAL,
    punctureLimit     PunctureLimit     OPTIONAL,
    iE-Extensions     ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container {{ DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD}}

DL-CCTrCH-InformationDeleteItemIE-RL-ReconfRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD          CRITICALITY    notify          TYPE DL-CCTrCH-InformationDeleteItem-RL-
    ReconfRqstTDD          PRESENCE    mandatory},
    ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    cCTrCH-ID          CCTrCH-ID,
    iE-Extensions     ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfRqstTDD

DCH-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    ul-FP-Mode        UL-FP-Mode        OPTIONAL,
    toAWS             ToAWS             OPTIONAL,
    toAWE             ToAWE             OPTIONAL,
    dCH-SpecificInformationList  DCH-ModifySpecificInformationList-RL-ReconfRqstTDD,
    iE-Extensions     ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfRqstTDD-ExtIEs} }          OPTIONAL,
    ...
}

DCH-ModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-ModifySpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfRqstTDD

DCH-ModifySpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {

```

```

dCH-ID                DCH-ID,
ul-CCTrCH-ID          CCTrCH-ID          OPTIONAL,
dl-CCTrCH-ID          CCTrCH-ID          OPTIONAL,
ul-TransportFormatSet TransportFormatSet  OPTIONAL,
dl-TransportFormatSet TransportFormatSet  OPTIONAL,
frameHandlingPriority FrameHandlingPriority OPTIONAL,
iE-Extensions         ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

DCH-ModifySpecificItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfRqstTDD

DCH-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
ul-FP-Mode                   UL-FP-Mode,
toAWS                         ToAWS,
toAWE                         ToAWE,
dCH-SpecificInformationList  DCH-AddSpecificInformationList-RL-ReconfRqstTDD,
iE-Extensions                ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

DCH-AddItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

DCH-AddSpecificInformationList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfRqstTDD

DCH-AddSpecificItem-RL-ReconfRqstTDD ::= SEQUENCE {
dCH-ID                DCH-ID,
ul-CCTrCH-ID          CCTrCH-ID,
dl-CCTrCH-ID          CCTrCH-ID,
ul-TransportFormatSet TransportFormatSet,
dl-TransportFormatSet TransportFormatSet,
frameHandlingPriority FrameHandlingPriority,
qE-Selector           QE-Selector OPTIONAL,
-- This IE is present only if DCH is part of set of Coordinated DCHs
iE-Extensions         ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
...
}

DCH-AddSpecificItem-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 ::= {
    ...
}

DSCH-Information-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfRqstTDD

DSCH-Information-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CTrCH-ID                OPTIONAL,
    transportFormatSet     TransportFormatSet        OPTIONAL,
    frameHandlingPriority   FrameHandlingPriority     OPTIONAL,
    toAWS                  ToAWS                    OPTIONAL,
    toAWE                  ToAWE                    OPTIONAL,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-AddItem-RL-ReconfRqstTDD

DSCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CTrCH-ID,
    transportFormatSet     TransportFormatSet,
    frameHandlingPriority   FrameHandlingPriority     OPTIONAL,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfRqstTDD

DSCH-Information-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions         ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DSCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-ModifyList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfRqstTDD

USCH-Information-ModifyItem-RL-ReconfRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID                OPTIONAL,
    transportFormatSet     TransportFormatSet        OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

USCH-Information-ModifyItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-AddList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-AddItem-RL-ReconfRqstTDD

USCH-Information-AddItem-RL-ReconfRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    QE Selector         QE Selector,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

USCH-Information-AddItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-DeleteList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfRqstTDD

USCH-Information-DeleteItem-RL-ReconfRqstTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

USCH-Information-DeleteItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Information-RL-ReconfRqstTDD ::= SEQUENCE {
    rL-ID                  RL-ID,
    maxDL-Power            DL-Power                OPTIONAL,
    minDL-Power            DL-Power                OPTIONAL,
    timeslotISCPInfoList   TimeslotISCPInfoList-RL-ReconfRqstTDD  OPTIONAL,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

RL-InformationItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TimeslotISCPInfoList-RL-ReconfRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF TimeslotISCPInfoItem-RL-ReconfRqstTDD

TimeslotISCPInfoItem-RL-ReconfRqstTDD ::= SEQUENCE {
    timeSlot              TimeSlot,
    dL-TimeslotISCP       DL-TimeslotISCP,
    iE-Extensions         ProtocolExtensionContainer { {TimeslotISCPInfoItem-RL-ReconfRqstTDD-ExtIEs} } OPTIONAL,
    ...
}

TimeslotISCPInfoItem-RL-ReconfRqstTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

<b>CHANGE REQUEST</b>		<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>
<b>25.433</b>	<b>CR</b>	<b>205r2</b>
<small>GSM (AA.BB) or 3G (AA.BBB) specification number ↑</small>		<small>↑ CR number as allocated by MCC support team</small>
For submission to: <b>TSG RAN#9</b> <small>list expected approval meeting # here ↑</small>	for approval for information	<input checked="" type="checkbox"/>
		<input type="checkbox"/>
	strategic non-strategic	<input type="checkbox"/> <input type="checkbox"/>
		<small>(for SMG use only)</small>
<small>Current Version: <b>3.2.0</b></small>		

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** 21<sup>st</sup> August 2000

**Subject:** Correction to RL Addition, Transmit Diversity Indicator

**Work item:**

<b>Category:</b> <small>(only one category shall be marked with an X)</small>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
--	--	-----------------	--

**Reason for change:** Correction to RL Addition for Tx Diversity Mode  
 ASN.1 already reflects this, but associated note is deleted

**Clauses affected:** 8.3.1.2, 9.1.39.1, 9.3.3

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> → List of CRs: Other GSM core specifications <input type="checkbox"/> → List of CRs: MS test specifications <input type="checkbox"/> → List of CRs: BSS test specifications <input type="checkbox"/> → List of CRs: O&M specifications <input type="checkbox"/> → List of CRs:
------------------------------	--

**Other comments:**



help.doc

<----- double-click here for help and instructions on how to create a CR.

## NBAP Dedicated Procedures

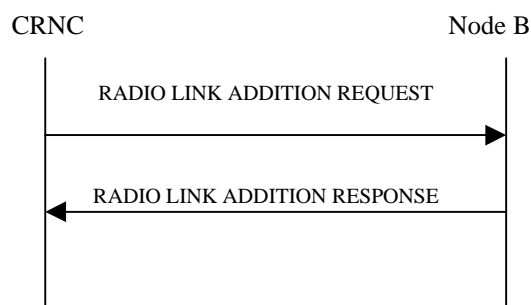
### 8.3.1 Radio Link Addition

#### 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 chapter 3.1.

#### 8.3.1.2 Successful Operation



**Figure: 28 Radio Link Addition procedure: Successful Operation**

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the CRNC to the Node B.

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 *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 indicates, "may be combined with already existing RLs", then 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. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with.

[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 Channelisation Code of the RL when starting transmission until either UL synchronisation is achieved for the RLS or a DL POWER REQUEST message is received. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. 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], chapter 5.2.1.2) with DPC MODE=0 and the downlink power control procedure (see 8.3.7).].

[TDD – 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 Channelisation Code and on each Time Slot of the RL when starting transmission until the UL synchronisation is achieved for the RL. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. 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], chapter 4.2.3.3).].

If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL power* IE, the Node B shall store this value and never transmit with a higher power on any DL Channelisation Code of the RL. If no *Maximum DL power* IE is included, any Maximum DL power stored for already existing RLs for this UE shall be applied.



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 Channelisation Code of the RL. If no *Minimum DL power* IE is included, any Minimum DL power stored for already existing RLs for this UE shall be applied.

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE the Node B may activate SSDT for the concerned new RL , with the indicated cell identity used for that RL.]

[FDD – If the RADIO LINK ADDITION REQUEST includes the *CM Deactivation Flag* IE with value "On", the Node B shall not activate any CM pattern sequence in the new RLs. In all the other cases (Flag set to "Off" or not present), the on going CM measurement (if existing) shall be applied also to the added RLs.]

[FDD- If the RADIO LINK ADDITION REQUEST contains the *Transmission Gap Pattern Sequence Code Information* IE Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code.]

If all requested RLs are successfully added, the Node B shall respond with a RADIO LINK ADDITION RESPONSE message.

[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.]

[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 the case of combining an RL with existing RL(s) the Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that the RL is combined. In this case the Reference RL ID shall be included to indicate one of the existing RLs that the new RL is combined with.

In the case of not combining an RL with existing RL(s), the Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that no combining is done. In this case the Node B shall include both the Transport Layer Address and the binding ID for the transport bearer to be established for each DCH of the RL in the RADIO LINK ADDITION RESPONSE message.

In case of coordinated DCH, the binding ID and the transport address shall be included for only one of the coordinated DCHs.

[FDD - Irrespective of SSDT activation, the Node B shall include in the RADIO LINK ADDITION RESPONSE message an indication concerning the capability to support SSDT on this RL. Only if the RADIO LINK ADDITION REQUEST message requested SSDT activation and the RADIO LINK ADDITION RESPONSE message indicates that the SSDT capability is supported for this RL, SSDT is activated in the Node B.]

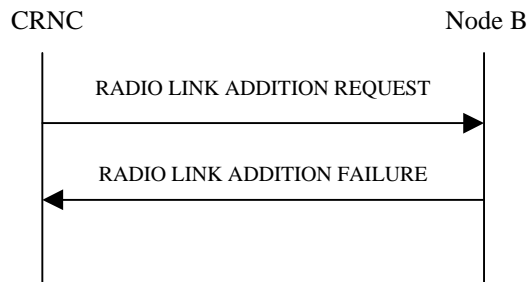
After sending of the RADIO LINK ADDITION RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation and start reception on the new RL. The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in 25.427.

[FDD – When *Diversity Mode* IE is “*STTD*”, “*Closedloop mode1*”, or “*Closedloop mode2*”, the DRNC shall activate/deactivate the Transmit Diversity to each Radio Link in accordance with *Transmit Diversity Indication* IE]

[FDD – When *Transmit Diversity Indicator* IE is present Node B shall activate/deactivate the Transmit Diversity to each new Radio Link in accordance with the *Transmit Diversity Indicator* IE and the already known diversity mode.]

[FDD – After addition of the new RL, the UL out-of-sync algorithm defined in [10] shall use the maximum value of the parameters N\_OUTSYNC\_IND and T\_RLFAILURE, and the minimum value of the parameters N\_INSYNC\_IND, that are configured in the cells supporting the radio links of the RL Set].

### 8.3.1.3 Unsuccessful Operation



**Figure 29: Radio Link Addition procedure: Unsuccessful Operation**

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.

If the value of the *Diversity Control Field* IE of one RL is 'Must', but the Node B cannot perform the requested combining, Node B shall indicate this with the cause value 'Combining Resources not available' in the RADIO LINK ADDITION FAILURE message.

[FDD – When the *Diversity Mode* IE equals “*Closedloop mode1*” or “*Closedloop mode2*” and no Closed Loop Timing Adjustment Mode was configured for a cell during cell setup, establishment of the concerning RL shall fail with cause value “*No Closed Loop Timing Adjustment Mode configured*” ].

[FDD - If the RADIO LINK ADDITION REQUEST contains the *CM Deactivation Flag* IE with the value "On", and at least one of the new RL is added in one cell that has the same UARCFN 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".]

Typical cause values are as follows:

#### Radio Network Layer Cause

- RL Already Activated/allocated
- Combining Resources not available
- No Closed Loop Timing Adjustment Mode configured
- Invalid CM Settings.

#### Transport Layer Cause

- Transport Resources Unavailable

#### Protocol Cause

- Semantic error

#### Miscellaneous Cause

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

### 8.3.1.4 Abnormal conditions

-



## 9.1.39 RADIO LINK ADDITION REQUEST

## 9.1.39.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
Compressed Mode Deactivation Flag	O				YES	reject
<b>RL Information</b>		1..<maxnoofRL-1>			EACH	notify
>RL ID	M		9.2.1.53		–	
>C-Id	M		9.2.1.9		–	
>Frame Offset	M		9.2.1.31		–	
>Chip Offset	M		9.2.2.2		–	
>Diversity Control Field	M		9.2.2.7		–	
<b>&gt;DL Code Information</b>		1..maxnoofDL Codes			–	
>>DL Scrambling code	M		9.2.2.13		–	
>>FDD DL channelisation code number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	O				–	
>Initial DL transmission power	O		DL Power 9.2.1.21		–	
>Maximum DL power	O		DL Power 9.2.1.21		–	
>Minimum DL power	O		DL Power 9.2.1.21		–	
>SSDT Cell Identity	O		9.2.2.44		–	
>Transmit Diversity Indicator	<del>O</del> Diversity mode O		9.2.2.53			

Condition	Explanation
Diversity mode	This IE is present unless Diversity Mode IE in UL DPCCH Information group is "none"

Range bound	Explanation
MaxnoofRL	Maximum number of RLs for one UE
MaxnoofDL Codes	Maximum number of DL code information

## 9.1.39.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.52		–	
<b>UL CCH Information</b>		0 to <max number of CCH>			GLOBAL	reject
>CCH ID	M		9.2.3.3		–	
<b>UL DPCH Information</b>		0 to <max number of DPCH>			EACH	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.3.16		–	
>Repetition Length	M		9.2.3.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>DL CCH Information</b>		0 to <max number of CCH>			GLOBAL	reject
>CCH ID	M		9.2.3.3		–	
<b>DL DPCH information</b>		0 to <max number of DPCH>			EACH	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.2.79.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.3.16		–	
>Repetition Length	M		9.2.3.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.53		–	
>C-Id	M		9.2.1.9		–	
>Frame Offset	M		9.2.1.31		–	
>Diversity Control Field	M		9.2.2.7		–	
>Initial DL Power	O		DL Power 9.2.1.21		–	
>Maximum DL power	O		DL Power 9.2.1.21		–	

>Minimum DL power	○		DL Power 9.2.1.21		-	
-------------------	---	--	----------------------	--	---	--

Range bound	Explanation
MaxnoOfDPCH	Maximum number of DPCH in one CCTrCH
MaxnoCCTrCH	number of CCTrCH for one UE.

### 9.3.3 NBAP PDU Content Definitions

```
-- *****
--
-- PDU definitions for NBAP.
--
-- *****
```

#### NOTE : TEXT OMMITTED

```
-- *****
--
-- 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-RL-InformationList-RL-AdditionRqstFDD  CRITICALITY notify          TYPE
      RL-InformationList-RL-AdditionRqstFDD        PRESENCE mandatory },
    ...
}
```

```
RadioLinkAdditionRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
RL-InformationList-RL-AdditionRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Container
{{ RL-InformationItemIE-RL-AdditionRqstFDD}}
```

```
RL-InformationItemIE-RL-AdditionRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-AdditionRqstFDD  CRITICALITY notify          TYPE
      RL-InformationItem-RL-AdditionRqstFDD        PRESENCE mandatory } |
    { ID id-Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD  CRITICALITY reject
      TYPE Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD  PRESENCE optional },
    ...
}
```

```
RL-InformationItem-RL-AdditionRqstFDD ::= SEQUENCE {
    rL-ID          RL-ID,
    c-ID          C-ID,
    frameOffset   FrameOffset,
    chipOffset    ChipOffset,
    diversityControlField  DiversityControlField,
    dl-CodeInformationList  DL-CodeInformationList-RL-AdditionRqstFDD,
    initialDL-TransmissionPower  DL-Power          OPTIONAL,
    maximumDL-Power            DL-Power          OPTIONAL,
    minimumDL-Power           DL-Power          OPTIONAL,
    sSDT-CellIdentity         SSDT-Cell-Identity  OPTIONAL,
    transmitDiversityIndicator  TransmitDiversityIndicator  OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer  { { RL-InformationItem-
RL-AdditionRqstFDD-ExtIEs } }          OPTIONAL,
    ...
}
```

```
RL-InformationItem-RL-AdditionRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```

DL-CodeInformationList-RL-AdditionRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfDLCodes)) OF DL-
CodeInformationItem-RL-AdditionRqstFDD

DL-CodeInformationItem-RL-AdditionRqstFDD ::= SEQUENCE {
  dl-scramblingCode          DL-ScramblingCode,
  fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
  transmissionGapPatternSequenceCodeInformation  OPTIONAL,
  iE-Extensions              ProtocolExtensionContainer { { DL-CodeInformationItem-
RL-AdditionRqstFDD-ExtIEs} }  OPTIONAL,
  ...
}

DL-CodeInformationItem-RL-AdditionRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```



## CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**TS 25.433 CR 207r1**

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **RAN#9**

list expected approval meeting # here  
 ↑

For approval

For information

Strategic  (for SMG use only)  
 Non-strategic

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
 (at least one should be marked with an X)

**Source:** R-WG3 **Date:** 08/2000

**Subject:** Higher Layer Signaling to solve downlink CCTrCH power control

**Work item:**

<b>Category:</b> <i>(only one category Shall be marked With an X)</i>	F Correction	<input checked="" type="checkbox"/>	<b>Release:</b>	Phase 2	<input type="checkbox"/>
	A Corresponds to a correction in an earlier release	<input type="checkbox"/>		Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>		Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input type="checkbox"/>		Release 98	<input type="checkbox"/>
	D Editorial modification	<input type="checkbox"/>		Release 99	<input checked="" type="checkbox"/>
			Release 00	<input type="checkbox"/>	

**Reason for change:** The ambiguity in the WG1 specifications pertaining to downlink power control is best solved by explicit signalling of the CCTrCH power control loop. In this signalling each DL CCTrCH is given the UL CCTrCH's which contain the TPC for this CCTrCH.

**Clauses affected:** 8.3.2, 9.1.36, 9.1.42, 9.3

<b>Other specs Affected:</b>	Other 3G core specifications	<input checked="" type="checkbox"/>	→ List of CRs:	25.224 CR 27
	Other GSM core specifications	<input type="checkbox"/>	→ List of CRs:	
	MS test specifications	<input type="checkbox"/>	→ List of CRs:	
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	

**Other comments:**

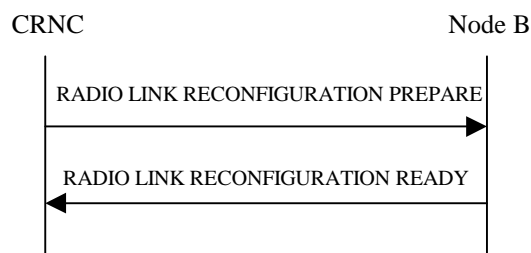
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of all Radio Links related to one UE-UTRAN connection within a Node B.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.2.2 Successful Operation



**Figure 30: Synchronised Radio Link Reconfiguration procedure, Successful Operation**

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE 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.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with 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.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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.

**DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to 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 and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Add* IE with multiple *DCH specific Info* IEs then, 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.

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* 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]. 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]].

[TDD - For USCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the *QE-Selector* is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24].]

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

**DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

**Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the Node B shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Downlink Channelisation Code* IEs, the Node B shall apply the new Downlink Channelisation Code(s) in the new configuration.]

[FDD- If the RADIO LINK RECONFIGURATION PREPARE contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

[FDD - The Node B shall use the *TFCS* IE for the UL 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 - The Node B shall use the *TFCS* IE for the DL 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 RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCH Structure IE*, group the Node B shall set the new Uplink DPCCH Structure to the new configuration.]

If the RADIO LINK RECONFIGURATION PREPARE includes the *Maximum DL Power IE*, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target IE*, the Node B shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

If the RADIO LINK RECONFIGURATION PREPARE 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase IE* and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase IE* and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

#### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any of *TFCS IE*, *TFCI coding IE*, *Puncture limit IE*, or *TPC CCTrCH ID IEs* the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be added , the Node B shall include this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be deleted, the Node B shall remove this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be modified, and includes any of *TDD Channelisation Code IE*, *Burst Type IE*, *Midamble shift 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 DPCH are still applicable.]

#### [TDD – UL/DL CCTrCH Addition]

[TDD -If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be added , the Node B shall include this CCTrCH in the new configuration.]

[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.]

#### SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication IE* set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity IE* and *SSDT Cell Identity Length IE* in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication IE* set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]

#### DSCH [TDD – and/or USCH] Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes DSCH information for the DSCHs to be added/modified/deleted 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. The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH code mapping IE* then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes. ]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[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 NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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 exist a Prepared Reconfiguration, as defined in chapter 3.1.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub DCH-information-response IE group shall be included only for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, the RL Information Response IE group shall be included only for one of the combined RLs.

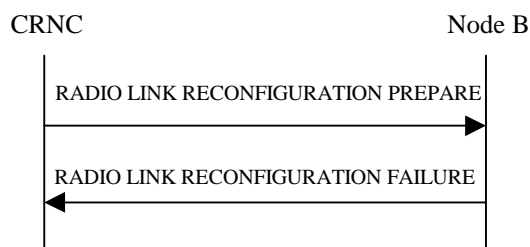
#### Compressed Mode Preparation:

[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.]

#### RL Information:

[TDD - If the *DL Time Slot ISCP* IE is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]

### 8.3.2.3 Unsuccessful Operation



**Figure 31: Synchronised Radio Link Reconfiguration procedure, Unsuccessful Operation**

If the Node B cannot reserve the necessary resources for all the new DCHs of one set of coordinated DCHs requested to be added, it shall regard the Synchronised Radio Link Reconfiguration procedure as having failed.

If the requested Synchronised Radio Link Reconfiguration 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.

If more than one 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 RECONFIGURATION FAILURE message.

[FDD – If the Node B cannot provide the requested CM pattern sequences, the Node B shall regard the Radio Link Reconfiguration Procedure as failed and shall respond with a RADIO LINK RECONFIGURATION FAILURE message with the cause value "Invalid CM settings".]

Typical cause values are as follows:

#### Radio Network Layer Cause

- RL Already Activated/allocated
- Invalid CM Settings.

**Transport Layer Cause**

- Transport Resources Unavailable

**Protocol Cause**

- Semantic error

**Miscellaneous Cause**

- O&M Intervention
- Unspecified
- Control processing overload
- HW failure

**8.3.2.4 Abnormal Conditions**

If only a subset of all the DCHs belonging to a set of coordinated DCHs is requested to be deleted, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

## 9.1.36 RADIO LINK SETUP REQUEST

## 9.1.36.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		1			YES	reject
>UL Scrambling Code	M		9.2.2.59		–	
>Min UL Channelisation Code length	M		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.21		–	
>puncture limit	M		9.2.1.50	For UL	–	
>TFCS	M		9.2.1.58	for UL	–	
>UL DPCCH Slot Format	M		9.2.2.57		–	
> UL SIR Target	M		UL SIR 9.2.2.58		–	
>Diversity mode	M		9.2.2.29		–	
>D Field Length	C – FB		9.2.2.5		–	
>SSDT cell ID Length	O		9.2.2.45		–	
>S Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>					YES	reject
>TFCS	M		9.2.1.58	For DL	–	
>DL DPCH Slot Format	M		9.2.2.10		–	
>TFCI signalling mode	M		9.2.2.50		–	
>TFCI presence	C- SlotFormat		9.2.1.57		–	
>Multiplexing Position	M		9.2.2.29		–	
>PDSCH RL ID	C-DSCH		RL ID 9.2.1.53		–	
>PDSCH code mapping	C-DSCH		9.2.2.25		–	
<b>&gt;Power Offset Information</b>		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		–	
>Limited Power Increase	M				–	
<b>DCH Information</b>		1 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	

>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For UL	–	
>>Transport Format Set	M		9.2.1.59	For DL	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DSCH Information</b>		0 to <maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For DSCH	–	
>Frame handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>RL Information</b>		1 to <maxnoof RLs>			EACH	notify
>RL ID	M		9.2.1.53		–	
>C-ID	M		9.2.1.9		–	
>First RLS Indicator	M				–	
>Frame Offset	M		9.2.1.31		–	
>Chip Offset	M		9.2.2.2		–	
>Propagation Delay	O		9.2.2.35		–	
>Diversity Control Field	C – NotFirstRL		9.2.2.7		–	
<b>&gt;DL Code Information</b>		1 to <maxnoof-DLCodes>			–	
>>DL Scrambling Code	M		9.2.2.13		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				–	
>Initial DL transmission Power	M		DL Power 9.2.1.21		–	
>Maximum DL power	M		DL Power 9.2.1.21		–	
>Minimum DL power	M		DL Power 9.2.1.21		–	
>SSDT Cell Identity	O		9.2.2.44		–	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53			
Transmission Gap Pattern Sequence Information	O				YES	reject
Active Pattern Sequence Information	O				YES	reject



Condition	Explanation
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4
FB	This IE is present only if Feed Back mode diversity is activated.
NotFirstRL	This IE is present only if the RL is not the first one in the RL Information.
DSCH	This IE is present only if the DSCH Information group is present
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.
Diversity mode	This IE is present unless <i>Diversity Mode</i> IE in <i>UL DPCH Information</i> group is "none"
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
MaxnoofDCHs	Maximum number of DCHs for one UE.
MaxnoofRLs	Maximum number of RLs for one UE.
MaxnoofDLCodes	Maximum number of DL code information.

## 9.1.36.2 TDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH Information</b>		0 to <maxno CCTrCH>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
<b>UL DPCH Information</b>		0 to <maxnoOf DPCH>			GLOBAL	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.1.16		–	
>Repetition Length	M		9.2.1.15		–	
>TFCI Presence	M		9.2.1.57		–	
<b>DL CCTrCH Information</b>		0 to <maxno CCTrCH>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
>TDD TPC DL Step Size	M		9.2.3.21		=	
<a href="#">&gt;TPC CCTrCH List</a>		1 to <maxnoCCTrCH>		<a href="#">List of uplink CCTrCH which provide TPC</a>	=	
<a href="#">&gt;&gt;TPC CCTrCH ID</a>	<a href="#">M</a>		<a href="#">CCTrCH ID 9.2.3.3</a>		=	
<b>DL DPCH information</b>		0 to <maxnoOf DPCH>			GLOBAL	notify
>DPCH ID	M		9.2.3.5		–	
>TDD Channelisation Code	M		9.2.3.19		–	
>Burst Type	M		9.2.3.2		–	
>Midamble Shift	M		9.2.3.7		–	
>Time Slot	M		9.2.3.23		–	
>TDD Physical Channel Offset	M		9.2.3.20		–	
>Repetition Period	M		9.2.3.16		–	
>Repetition Length	M		9.2.3.15		–	

>TFCI Presence	M		9.2.1.57		–	
<b>DCH Information</b>		0 to <maxnoof DCHs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxno ofDCHs>			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped	–	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.59	For UL	–	
>>Transport Format Set	M		9.2.1.59	For DL	–	
>>Frame Handling Priority	O		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DSCH Information</b>		0 to <Maxnoof DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	M		9.2.1.59	For DSCH	–	
>Frame handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>USCH Information</b>		0 to <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M		9.2.1.59	For USCH	–	
>QE-Selector	M		9.2.1.50A		–	
<b>RL Information</b>		1			YES	reject
>RL ID	M		9.2.1.53		–	
>C-ID	M		9.2.1.9		–	
>Frame Offset	M		9.2.1.31		–	
>Initial DL transmission Power	M		DL Powe 9.2.1.21r		–	
>Maximum DL power	M		DL Power 9.2.1.21		–	
>Minimum DL power	M		DL Power 9.2.1.21		–	

<b>Range bound</b>	<b>Explanation</b>
MaxnoofDCHs	Maximum number of DCHs for one UE
maxnoOfDPCH	Maximum number of DPCH in one CCTrCH
maxnoCCTrCH	Number of CCTrCH for one UE.
MaxnoofDSCHs	Maximum number of DSCH for one UE
MaxnoofUSCHs	Maximum number of USCH for one UE

## 9.1.42 RADIO LINK RECONFIGURATION PREPARE

## 9.1.42.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		0..1			YES	reject
>UL Scrambling code	O		9.2.2.59		–	
>UL SIR Target	O		UL SIR 9.2.2.58			
>Min UL Channelisation Code Length	O		9.2.2.22		–	
>Max Number of UL DPDCHs	C – CodeLen		9.2.2.20		–	
>Puncture Limit	O		9.2.1.50	For UL	–	
>TFCS	O		9.2.1.58		–	
>UL DPCCH Slot Format	O		9.2.2.57		–	
>SSDT Cell Identity Length	O		9.2.2.45		–	
>S-Field Length	O		9.2.2.40		–	
<b>DL DPCH Information</b>		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-Slot Format		9.2.1.57		–	
>Multiplexing Position	O		9.2.2.23		–	
>PDSCH code mapping	O		9.2.2.25			
>PDSCH RL ID	O		RL ID 9.2.1.53			
>Limited Power Increase	O				–	
<b>DCHs to Modify</b>		0..<max noofDC Hs>			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<max noofDC Hs>			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.20		–	
<b>DCHs to Add</b>		0..<max noofDC Hs>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP Mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	

<b>&gt;DCH Specific Info</b>		<i>1..&lt;max noofDC Hs&gt;</i>			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DCHs to Delete</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH to modify</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	O		9.2.1.59	For the DL.	–	
>Frame Handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH to add</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
>Transport Format Set	M		9.2.1.59	For the DL.	–	
>Frame Handling Priority	M		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH to Delete</b>		<i>0..&lt;max noofDS CHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		–	
<b>RL Information</b>		<i>0..&lt;max noofRLs &gt;</i>			EACH	reject
>RL ID	M		9.2.1.53		–	
<b>&gt;DL Code Information</b>		<i>0..&lt;max noofDL Codes&lt;</i>			–	
>>DL Scrambling Code	O		9.2.2.12		–	
>>FDD DL Channelisation Code Number	O		9.2.2.14		–	
>>Transmission Gap Pattern Sequence Code Information	C-SF/2				–	
>Maximum DL Power	O		DL Power 9.2.1.21		–	
>Minimum DL Power	O		DL Power 9.2.1.21		–	
>SSDT Indication	O		9.2.2.47		–	
>SSDT Cell Identity	C-SSDTIndON		9.2.2.44		–	
Transmission Gap Pattern Sequence Information	O				YES	reject

Condition	Explanation
SSDTIndON	The IE may be present if the SSDT Indication is set to 'SSDT Active in the UE'.
CodeLen	This IE is present only if "Min UL Channelisation Code length" equals to 4.
SlotFormat	This IE is only present if the DL DPCH slot format is equal to any of the value 12 to 16.
SF/2	This IE is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.

## 9.1.42.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH to Add</b>		0.. <maxno of CCTrCHs>			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>Puncture Limit	M		9.2.1.50		–	
<b>&gt;UL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
>>Burst Type	M		9.2.3.2		–	
>>Midamble Shift	M		9.2.3.7		–	
>>Time Slot	M		9.2.3.23		–	
>>TDD Physical channel Offset	M		9.2.3.20		–	
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TFCI Presence	M		9.2.1.57		–	
<b>UL CCTrCH to Modify</b>		0.. <maxno of CCTrCHs>			GLOBAL	reject
>CCTrCH ID	M				–	
>TFCS	O				–	
>TFCI Coding	O				–	
>Puncture Limit	O				–	
<b>&gt;UL DPCH to add</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	M				–	
>>Burst Type	M				–	
>>Midamble Shift	M				–	
>>Time Slot	M				–	
>>TDD Physical channel Offset	M				–	
>>Repetition Period	M				–	
>>Repetition Length	M				–	
>>TFCI Presence	M				–	



<b>&gt;UL DPCH to modify</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
>>TDD Channelisation Code	O				–	
>>Burst Type	O				–	
>>Midamble Shift	O				–	
>>Time Slot	O				–	
>>TDD Physical channel Offset	O				–	
>>Repetition Period	O				–	
>>Repetition Length	O				–	
>>TFCI Presence	O				–	
<b>&gt;UL DPCH to delete</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				–	
<b>UL CCTrCH to Delete</b>		0.. <maxno of CCTrC Hs>			GLOBAL	reject
>CCTrCH ID	M				–	
<b>DL CCTrCH to Add</b>		0.. <maxno of CCTrC Hs			GLOBAL	reject
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	M		9.2.1.58		–	
>TFCI Coding	M		9.2.3.22		–	
>PunctureLimit	M		9.2.1.50		–	
<b><u>&gt;TPC CCTrCH List</u></b>		<b><u>1 to &lt;maxn oCCTr CH&gt;</u></b>		<b><u>List of uplink CCTrCH which provide TPC</u></b>	<b><u>=</u></b>	
<b><u>&gt;&gt;TPC CCTrCH ID</u></b>	<b><u>M</u></b>		<b><u>CCTrCH ID 9.2.3.3</u></b>		<b><u>=</u></b>	
<b>&gt;DL DPCH Information</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M		9.2.3.5		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
>>Burst Type	M		9.2.3.2		–	
>>Midamble Shift	M		9.2.3.7		–	
>>Time Slot	M		9.2.3.23		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TFCI Presence	M		9.2.1.57		–	
<b>DL CCTrCH to Modify</b>		0.. <maxno of CCTrC			GLOBAL	reject

		Hs				
>CCTrCH ID	M				-	
>TFCS	O				-	
>TFCI Coding	O				-	
>PunctureLimit	O				-	
<a href="#">&gt;TPC CCTrCH List</a>		<a href="#">0 to &lt;maxno of CCTrCH&gt;</a>		<a href="#">List of uplink CCTrCH which provide TPC</a>	=	
<a href="#">&gt;&gt;TPC CCTrCH ID</a>	<a href="#">M</a>		<a href="#">CCTrCH ID 9.2.3.3</a>		=	
<b>&gt;DL DPCH to add</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	M				-	
>>Burst Type	M				-	
>>Midamble Shift	M				-	
>>Time Slot	M				-	
>>TDD Physical Channel Offset	M				-	
>>Repetition Period	M				-	
>>Repetition Length	M				-	
>>TFCI Presence	M				-	
<b>&gt;DL DPCH to modify</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
>>TDD Channelisation Code	O				-	
>>Burst Type	O				-	
>>Midamble Shift	O				-	
>>Time Slot	O				-	
>>TDD Physical Channel Offset	O				-	
>>Repetition Period	O				-	
>>Repetition Length	O				-	
>>TFCI Presence	O				-	
<b>&gt;DL DPCH to delete</b>		0.. <maxno of DPCHs >			GLOBAL	reject
>>DPCH ID	M				-	
<b>DL CCTrCH to Delete</b>		0.. <maxno of CCTrCHs >			GLOBAL	reject
>CCTrCH ID	M				-	
<b>DCHs to Modify</b>		0.. <maxno of DC Hs >			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		-	
>ToAWS	O		9.2.1.61		-	
>ToAWE	O		9.2.1.60		-	

<b>&gt;DCH Specific Info</b>		<i>1..&lt;max noofDC Hs&gt;</i>			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	O		9.2.3.3	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP Mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		<i>1..&lt;max noofDC Hs&gt;</i>			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
<b>DCHs to Delete</b>		<i>0..&lt;max noofDC Hs&gt;</i>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH Information to modify</b>		<i>0 .. &lt;Maxno of DSCHs &gt;</i>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	O		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH Information to add</b>		<i>0 .. &lt;Maxno of DSCHs &gt;</i>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the	–	

				DSCH is mapped		
>Transport Format Set	M		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH Information to delete</b>		0 .. <Maxno of DSCHs >			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
<b>USCH Information to modify</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>Transport Format Set	O		9.2.1.59		–	
>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the USCH is mapped	–	
<b>USCH Information to add</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	M			UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>QE-Selector	M		9.2.1.50A		–	
<b>USCH Information to delete</b>		0 .. <Maxno of USCHs >			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
<b>RL Information</b>		0..1			YES	reject
>RL ID	M		9.2.1.53		–	
>Maximum Downlink Power	O		DL Power 9.2.1.21		–	
>Minimum Downlink Power	O		DL Power 9.2.1.21		–	

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>Maxnoof DPCHs</i>	Maximum number of DPCHs in one CCTrCH.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE

```

-- *****
--
-- 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-UL-DPCH-InformationList-RL-SetupRqstTDD  CRITICALITY notify          TYPE UL-DPCH-InformationList-RL-SetupRqstTDD
    PRESENCE optional }|
    { ID      id-DL-CCTrCH-InformationList-RL-SetupRqstTDD  CRITICALITY notify          TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD  PRESENCE
    optional }|
    { ID      id-DL-DPCH-InformationList-RL-SetupRqstTDD  CRITICALITY notify          TYPE DL-DPCH-InformationList-RL-SetupRqstTDD
    PRESENCE optional }|
    { ID      id-DCH-InformationList-RL-SetupRqstTDD      CRITICALITY reject          TYPE DCH-InformationList-RL-SetupRqstTDD      PRESENCE
    optional }|
    { ID      id-DSCH-InformationList-RL-SetupRqstTDD     CRITICALITY reject          TYPE DSCH-InformationList-RL-SetupRqstTDD     PRESENCE
    optional }|
    { ID      id-USCH-InformationList-RL-SetupRqstTDD     CRITICALITY reject          TYPE USCH-InformationList-RL-SetupRqstTDD     PRESENCE
    optional }|
    { ID      id-RL-Information-RL-SetupRqstTDD          CRITICALITY reject          TYPE RL-Information-RL-SetupRqstTDD          PRESENCE
    mandatory },
    ...
}

RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF
    ProtocolIE-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                TFCS,
    tFCI-Coding         TFCI-Coding,
    punctureLimit       PunctureLimit,
    iE-Extensions       ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationItem-RL-SetupRqstTDD

UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift         MidambleShift,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions         ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Container{{ DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD }}

DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID      id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD      CRITICALITY    notify          TYPE DL-CCTrCH-InformationItem-RL-SetupRqstTDD
      PRESENCE mandatory},
    ...
}

DL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                     TFCS,
    tFCI-Coding              TFCI-Coding,
    punctureLimit            PunctureLimit,
    tdd-TPC-DownlinkStepSize TDD-TPC-DownlinkStepSize,
    cCTrCH-TPCList          CCTrCH-TPCList-RL-SetupRqstTDD,
    iE-Extensions           ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD

CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID CCTrCH-ID,
    ...
}

DL-DPCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationItem-RL-SetupRqstTDD

DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dPCH-ID DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType BurstType,
    midambleShift MidambleShift,
    timeSlot TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod RepetitionPeriod,
    repetitionLength RepetitionLength,
    tFCI-Presence TFCI-Presence,
    iE-Extensions ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-InformationItem-RL-SetupRqstTDD

DCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    payloadCRC-PresenceIndicator PayloadCRC-PresenceIndicator,
    ul-FP-Mode UL-FP-Mode,
    toAWS ToAWS,
    toAWE ToAWE,
    dCH-SpecificInformationList DCH-SpecificInformationList-RL-SetupRqstTDD,
    iE-Extensions ProtocolExtensionContainer { { DCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL,
    ...
}

DCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DCH-SpecificInformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-SpecificItem-RL-SetupRqstTDD

DCH-SpecificItem-RL-SetupRqstTDD ::= SEQUENCE {
    dCH-ID DCH-ID,

```

```

    ul-CCTrCH-ID          CCTrCH-ID,
    dl-CCTrCH-ID          CCTrCH-ID,
    ul-TransportFormatSet TransportFormatSet,
    dl-TransportFormatSet TransportFormatSet,
    frameHandlingPriority  FrameHandlingPriority      OPTIONAL,
    qE-Selector           QE-Selector,
    iE-Extensions         ProtocolExtensionContainer { { DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs } }  OPTIONAL,
    ...
}

DCH-SpecificItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-InformationItem-RL-SetupRqstTDD

DSCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    dSCH-ID          DSCH-ID,
    cCTrCH-ID       CCTrCH-ID,
    transportFormatSet TransportFormatSet,
    frameHandlingPriority FrameHandlingPriority,
    toAWS           ToAWS,
    toAWE           ToAWE,
    iE-Extensions   ProtocolExtensionContainer { { DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs } }  OPTIONAL,
    ...
}

DSCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-InformationItem-RL-SetupRqstTDD

USCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    uSCH-ID          USCH-ID,
    cCTrCH-ID       CCTrCH-ID,
    transportFormatSet TransportFormatSet,
    qE-Selector     QE-Selector,
    iE-Extensions   ProtocolExtensionContainer { { USCH-InformationItemIE-RL-SetupRqstTDD-ExtIEs } }  OPTIONAL,
    ...
}

USCH-InformationItemIE-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RL-Information-RL-SetupRqstTDD ::= SEQUENCE {
    rL-ID          RL-ID,
    c-ID           C-ID,
    frameOffset    FrameOffset,
    initialDL-transmissionPower DL-Power,

```



```
    maximumDL-power          DL-Power,  
    minimumDL-power         DL-Power,  
    iE-Extensions           ProtocolExtensionContainer { { RL-Information-RL-SetupRgstTDD-ExtIEs} } OPTIONAL,  
    ...  
  }  
  
RL-Information-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}
```

```
-- *****
--
-- RADIO LINK RECONFIGURATION PREPARE TDD
--
-- *****
```

```
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-DCH-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE DCH-ModifyList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-DCH-AddList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE DCH-AddList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-DCH-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE DCH-DeleteList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-DSCH-Information-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE DSCH-Information-ModifyList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-DSCH-information-AddList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE DSCH-Information-AddList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-DSCH-Information-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE DSCH-Information-DeleteList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-USCH-Information-ModifyList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE USCH-Information-ModifyList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-USCH-information-AddList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE USCH-Information-AddList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-USCH-Information-DeleteList-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE USCH-Information-DeleteList-RL-ReconfPrepTDD
  PRESENCE  optional } |
  { ID      id-RL-Information-RL-ReconfPrepTDD          CRITICALITY    reject    TYPE RL-Information-RL-ReconfPrepTDD
  PRESENCE  optional },
  ...
}
```

```

RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    tFCS                     TFCS,
    tFCI-Coding              TFCI-Coding,
    punctureLimit            PunctureLimit,
    ul-DPCH-InformationList  UL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-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-InformationAddListIE-RL-ReconfPrepTDD    PRESENCE
    mandatory },
    ...
}

UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationAddItem-RL-ReconfPrepTDD

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions           ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-CCTrCH-InformationModifyList-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,
    ul-DPCH-InformationModifyList  UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD  OPTIONAL,
    ul-DPCH-InformationDeleteList  UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD  OPTIONAL,
    iE-Extensions      ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }  OPTIONAL,
    ...
}

UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-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-AddListIE-RL-ReconfPrepTDD
      PRESENCE mandatory },
    ...
}

UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD

UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID          DPCH-ID,
    tDD-ChannelisationCode  TDD-ChannelisationCode,
    burstType        BurstType,
    midambleShift    MidambleShift,
    timeSlot         TimeSlot,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
    repetitionPeriod  RepetitionPeriod,
    repetitionLength  RepetitionLength,
    tFCI-Presence     TFCI-Presence,
    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-Container {{ UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE UL-DPCH-InformationModify-ModifyListIE-RL-
      ReconfPrepTDD          PRESENCE mandatory },
    ...
}

```

UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD

```
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tDD-ChannelisationCode TDD-ChannelisationCode    OPTIONAL,
    burstType              BurstType                OPTIONAL,
    midambleShift          MidambleShift            OPTIONAL,
    timeSlot               TimeSlot                 OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    repetitionPeriod       RepetitionPeriod         OPTIONAL,
    repetitionLength       RepetitionLength         OPTIONAL,
    tFCI-Presence          TFCI-Presence            OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    ...
}
```

```
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-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 } }
    OPTIONAL,
    ...
}
```

```
UL-DPCH-InformationModify-DeleteItem-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 {
    cCTrCH-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                    TFCS,
    tFCI-Coding             TFCI-Coding,
    punctureLimit          PunctureLimit,
    cCTrCH-TPCList         CCTrCH-TPCAddList-RL-ReconfPrepTDD,
    dl-DPCH-InformationList DL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} }
    OPTIONAL,
    ...
}

DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD

CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    ...
}

DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD PRESENCE
    mandatory },
    ...
}

DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationAddItem-RL-ReconfPrepTDD

DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    repetitionLength       RepetitionLength,
    tFCI-Presence          TFCI-Presence,
    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    ...
}

```

```

DL-DPCH-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,
    tFCS                     TFCS                                OPTIONAL,
    tFCI-Coding              TFCI-Coding                        OPTIONAL,
    punctureLimit            PunctureLimit                    OPTIONAL,
    cCTrCH-TPCList           CCTrCH-TPCModifyList-RL-ReconfPrepTDD  OPTIONAL,
    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 ::= {
    ...
}

CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD

CCTrCH-TPCModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID                CCTrCH-ID,
    ...
}

DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD
    PRESENCE mandatory },
    ...
}

DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode TDD-ChannelisationCode,
    burstType              BurstType,
    midambleShift          MidambleShift,
    timeSlot               TimeSlot,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    repetitionPeriod       RepetitionPeriod,
    rpetitionLength        RepetitionLength,
    tFCI-Presence          TFCI-Presence,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  CRITICALITY reject          TYPE DL-DPCH-InformationModify-ModifyListIE-RL-
ReconfPrepTDD          PRESENCE mandatory },
    ...
}

DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID                DPCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode          OPTIONAL,
    burstType               BurstType                       OPTIONAL,
    midambleShift           MidambleShift                   OPTIONAL,
    timeSlot                TimeSlot                        OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset    OPTIONAL,
    repetitionPeriod        RepetitionPeriod                OPTIONAL,
    rpetitionLength         RepetitionLength                 OPTIONAL,
    tFCI-Presence           TFCI-Presence                   OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
OPTIONAL,
    ...
}

DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Container {{ DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

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-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-ExtIEs } }
  OPTIONAL,
  ...
}
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
DCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifyItem-RL-ReconfPrepTDD
DCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  ul-FP-Mode          UL-FP-Mode          OPTIONAL,
  toAWS               ToAWS               OPTIONAL,
  toAWE               ToAWE               OPTIONAL,
  dCH-SpecificInformationList  DCH-ModifySpecificInformationList-RL-ReconfPrepTDD,
  iE-Extensions     ProtocolExtensionContainer { { DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }      OPTIONAL,
  ...
}
DCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}
DCH-ModifySpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-ModifySpecificItem-RL-ReconfPrepTDD
DCH-ModifySpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dCH-ID              DCH-ID,
  ul-cCTrCH-ID        CCTrCH-ID          OPTIONAL,
  dl-cCTrCH-ID        CCTrCH-ID          OPTIONAL,
  ul-TransportFormatSet  TransportFormatSet  OPTIONAL,
  dl-TransportFormatSet  TransportFormatSet  OPTIONAL,
  frameHandlingPriority  FrameHandlingPriority  OPTIONAL,
  iE-Extensions     ProtocolExtensionContainer { { DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs } }      OPTIONAL,
  ...
}
DCH-ModifySpecificItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

```

DCH-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddItem-RL-ReconfPrepTDD

```
DCH-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
  payloadCRC-PresenceIndicator      PayloadCRC-PresenceIndicator,
  ul-FP-Mode                        UL-FP-Mode,
  toAWS                             ToAWS,
  toAWE                             ToAWE,
  dCH-SpecificInformationList       DCH-AddSpecificInformationList-RL-ReconfPrepTDD,
  iE-Extensions                     ProtocolExtensionContainer { { DCH-AddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}
```

```
DCH-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

DCH-AddSpecificInformationList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-AddSpecificItem-RL-ReconfPrepTDD

```
DCH-AddSpecificItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dCH-ID                            DCH-ID,
  ul-CCTrCH-ID                      CCTrCH-ID,
  dl-CCTrCH-ID                      CCTrCH-ID,
  ul-TransportFormatSet             TransportFormatSet,
  dl-TransportFormatSet             TransportFormatSet,
  frameHandlingPriority              FrameHandlingPriority,
  qE-Selector                       QE-Selector,
  iE-Extensions                     ProtocolExtensionContainer { { DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
  ...
}
```

```
DCH-AddSpecificItem-RL-ReconfPrepTDD-ExtIEs 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-ExtIEs} } OPTIONAL,
  ...
}
```

```
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD

```
DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
  dSCH-ID                            DSCH-ID,
```

```

    cCTrCH-ID                CCTrCH-ID                OPTIONAL,
    transportFormatSet        TransportFormatSet    OPTIONAL,
    frameHandlingPriority      FrameHandlingPriority  OPTIONAL,
    toAWS                      ToAWS                OPTIONAL,
    toAWE                      ToAWE                OPTIONAL,
    iE-Extensions             ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-AddItem-RL-ReconfPrepTDD

DSCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet      TransportFormatSet,
    frameHandlingPriority    FrameHandlingPriority    OPTIONAL,
    toAWS                  ToAWS,
    toAWE                  ToAWE,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD

DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID                DSCH-ID,
    iE-Extensions          ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD

USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    transportFormatSet      TransportFormatSet    OPTIONAL,
    cCTrCH-ID              CCTrCH-ID                OPTIONAL,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    ...
}

```

```

USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

USCH-Information-AddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-AddItem-RL-ReconfPrepTDD

USCH-Information-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID                USCH-ID,
    cCTrCH-ID              CCTrCH-ID,
    transportFormatSet     TransportFormatSet,
    qE-Selector            QE-Selector,
    iE-Extensions          ProtocolExtensionContainer { { USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs} }    OPTIONAL,
    ...
}

USCH-Information-AddItem-RL-ReconfPrepTDD-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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 ::= {
    ...
}

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 ::= {
    ...
}

```

**3GPP TSG-RAN WG3 Meeting #15  
Berlin, Germany, 21-25 Aug 2000**

**Document R3-002085**

e.g. for 3GPP use the format TP-99xxx  
or for SMG, use the format P-99-xxx

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>
<b>25.433</b>	<b>CR 208</b>	Current Version: <b>3.2.0</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑	↑ CR number as allocated by MCC support team	
For submission to: <b>TSG RAN #9</b> <i>list expected approval meeting # here</i> ↑	for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <i>(for SMG use only)</i>

Form: CR cover sheet, version 2 for 3GPP and SMG    The latest version of this form is available from: <http://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:**    (U)SIM     ME     UTRAN / Radio     Core Network   
*(at least one should be marked with an X)*

**Source:**    R-WG3    **Date:**    8/2000

**Subject:**    Renaming of Timeslot ISCP

**Work item:**    \_\_\_\_\_

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

*(only one category shall be marked with an X)*

**Reason for change:**    This contribution corrects an error in which the name of IE in procedure text(*DL Time Slot ISCP*) and definition(*DL Timeslot ISCP*) was not in line. And also we propose to rename Timeslot ISCP to UL Timeslot ISCP in measurement procedure to clarify the meaning.

**Clauses affected:**    8.3.2.2, 8.3.5.2, 9.1.47.2, 9.2.1.11, 9.1.2.12, 9.2.1.43, 9.2.1.44, 9.3.3, 9.3.4

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> → List of CRs: Other GSM core specifications <input type="checkbox"/> → List of CRs: MS test specifications <input type="checkbox"/> → List of CRs: BSS test specifications <input type="checkbox"/> → List of CRs: O&M specifications <input type="checkbox"/> → List of CRs:	
------------------------------	--	--

**Other comments:**    This is in line with the usage of terminology in R3-001977.

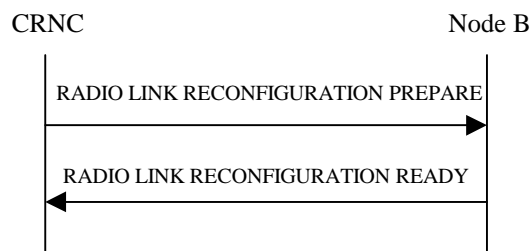
## 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of all Radio Links related to one UE-UTRAN connection within a Node B.

The Synchronised Radio Link Reconfiguration Preparation procedure shall not be initiated if a Prepared Reconfiguration exists, as defined in chapter 3.1.

### 8.3.2.2 Successful Operation



**Figure 30: Synchronised Radio Link Reconfiguration procedure, Successful Operation**

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE 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.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Frame Handling Priority* IE for a DCH to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transport Format Set* IE for the DL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE with 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.

If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL FP Mode* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWS* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION PREPARE message includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs to be modified, 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.

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION PREPARE message includes any DCH to be added to 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 and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Add* IE with multiple *DCH specific Info* IEs then, 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.

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 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]. 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]].

[TDD - For USCHs with the *QE-Selector* IE set to “selected”, the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the QE-Selector is set to “non-selected”, the Physical channel BER shall be used for the QE in the UL data frames, ref. [24].]

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

#### **DCH Deletion:**

If the RADIO LINK RECONFIGURATION PREPARE 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Uplink Scrambling Code* IE, the Node B shall apply this Uplink Scrambling Code to the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Uplink Channelisation Code* IEs, the Node B shall apply the new Uplink Channelisation Code(s) in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes one or more *Downlink Channelisation Code* IEs, the Node B shall apply the new Downlink Channelisation Code(s) in the new configuration.]

[FDD- If the RADIO LINK RECONFIGURATION PREPARE contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

[FDD - The Node B shall use the *TFCS* IE for the UL 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 - The Node B shall use the *TFCS* IE for the DL 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 RADIO LINK RECONFIGURATION PREPARE message includes on the *UL DPCCH Structure* IE, group the Node B shall set the new Uplink DPCCH Structure to the new configuration.]

If the RADIO LINK RECONFIGURATION PREPARE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *UL SIR Target* IE, the Node B shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

If the RADIO LINK RECONFIGURATION PREPARE 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

#### [TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION PREPARE message includes any of *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 RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be added , the Node B shall include this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be deleted, the Node B shall remove this DPCH in the new configuration.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any DPCH to be modified, and includes any of *TDD Channelisation Code* IE, *Burst Type* IE, *Midamble shift* 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 DPCH are still applicable.]

#### [TDD – UL/DL CCTrCH Addition]

[TDD -If the RADIO LINK RECONFIGURATION PREPARE message includes any UL or DL CCTrCH to be added , the Node B shall include this CCTrCH in the new configuration.]

[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.]

#### SSDT Activation/Deactivation:

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE and *SSDT Cell Identity Length* IE in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]

#### DSCH [TDD – and/or USCH] Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes DSCH information for the DSCHs to be added/modified/deleted 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. The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH code mapping* IE then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes. ]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[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 NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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 exist a Prepared Reconfiguration, as defined in chapter 3.1.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub DCH-information-response IE group shall be included only for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, the RL Information Response IE group shall be included only for one of the combined RLs.

#### **Compressed Mode Preparation:**

[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.]

#### **RL Information:**

~~[TDD – If the *DL Time Slot ISCP* IE is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]~~

## 8.3.5 Unsynchronised Radio Link Reconfiguration

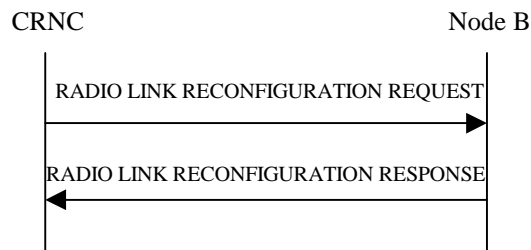
### 8.3.5.1 General

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 RL 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 chapter 3.1.

### 8.3.5.2 Successful Operation



**Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation**

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION REQUEST 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.

#### **DCH Modification:**

If the RADIO LINK RECONFIGURATION REQUEST message includes on the *Frame Handling Priority* IE for a DCH to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Format Set* IE for the UL of a DCH to be modified, the Node B shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transport Format Set* IE for the DL a DCH to be modified, the Node B shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Modify* IE with 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.

If the RADIO LINK RECONFIGURATION REQUEST message includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be modified, 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 RADIO LINK RECONFIGURATION REQUEST message includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be modified, 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.

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any DCH to be added to 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 and include these DCH in the new configuration.

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Add* IE with multiple *DCH Specific Info* IEs then the *DCH Combination Indicator* IE 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.

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 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]. 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]].

[TDD - For USCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that USCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected USCH the Physical channel BER shall be used for the QE, ref. [24]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [24]].

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 radio interface in congestion situations within the Node B once the new configuration has been activated.

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 Start Point 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 End Point in the user plane for the DCH or the set of co-ordinated DCHs 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 of all the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the UL, the Node B shall apply the new TFCS in the Uplink of the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]

If the RADIO LINK RECONFIGURATION REQUEST includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a higher power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.

If the RADIO LINK RECONFIGURATION REQUEST 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 of the Radio Link once the new configuration is being used.

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] section 5.2.1 for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Limited Power Increase* IE and the IE is 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 contains the *DL Code Information* IE group for any of the allocated DL Channelisation code, the Node B shall apply the new setting when new compressed mode measurement are activated.]

#### **[TDD - UL/DL CCTrCH Modification]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST 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.]

**[TDD – UL/DL CCTrCH Deletion]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any UL or DL CCTrCH to be deleted, the Node B shall not include this CCTrCH in the new configuration.]

**DSCH [TDD – and/or USCH] Addition/Modification/Deletion:**

If the RADIO LINK RECONFIGURATION REQUEST message includes DSCH information for the DSCHs to be added/modified/deleted then the NodeB 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. The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the DSCHs being added or modified.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *PDSCH code mapping* IE then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes. ]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

**[TDD - USCH Addition/Modification/Deletion:]**

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes USCH information for the USCHs to be added/modified/deleted then the NodeB 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. – It shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Transport Layer Address and the Binding ID of the USCHs being added or modified.]

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.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the DCH-information-response IE group shall be included for one of the DCH in the set of coordinated DCHs.

In case of a Radio Link being combined with another Radio Link within the Node B, RL Information Response IE group shall be included only for one of the combined Radio Links.

**Compressed Mode Preparation:**

[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.]

**RL Information:**

[TDD - If the *DL Time Slot ISCPDL Timeslot ISCP* IE is present, the Node B may use the indicated value when deciding the DL TX Power for each timeslot.]

## 9.1.47 RADIO LINK RECONFIGURATION REQUEST

### 9.1.47.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.58	For the UL.	–	
<b>DL DPCH Information</b>		0..1			YES	reject
>TFCS	O		9.2.1.58	For the DL.	–	
>TFCI Signalling Mode	O		9.2.2.50		–	
>PDSCH code mapping	O		9.2.2.25			
>PDSCH RL ID	O		RL ID 9.2.1.53			
>Limited Power Increase	O				–	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DCHs to Delete</b>		0..<maxn oofDCHs >			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH to Modify</b>		0..<maxn oofDSCHs >			YES	reject

>DSCH ID	M		9.2.1.27		-	
>Transport Format Set	O		9.2.1.59	For the DL.	-	
>Frame Handling Priority	O		9.2.1.30		-	
>ToAWS	O		9.2.1.61		-	
>ToAWE	O		9.2.1.60		-	
<b>DSCH to Add</b>		<i>0..&lt;maxnoofDSCHs&gt;</i>			YES	reject
>DSCH ID	M		9.2.1.27		-	
>Transport Format Set	M		9.2.1.59	For the DL.	-	
>Frame Handling Priority	M		9.2.1.30		-	
>ToAWS	M		9.2.1.61		-	
>ToAWE	M		9.2.1.60		-	
<b>DSCH to Delete</b>		<i>0..1</i>			YES	reject
>DSCH ID	M		9.2.1.27		-	
<b>Radio Link Information</b>		<i>0..&lt;maxnoofRLs&gt;</i>			EACH	reject
>RL ID	M		9.2.1.53		-	
>Maximum DL Power	O		DL Power 9.2.1.53		-	
>Minimum DL Power	O		DL Power 9.2.1.53		-	
<b>&gt;DL Code Information</b>	C-SF/2	<i>0..&lt;maxnoofDLCodes&lt;</i>			-	
>>DL Scrambling Code	O				-	
>>FDD DL Channelisation Code Number	O				-	
>>Transmission Gap Pattern sequence Code Information	O				-	
Transmission Gap Pattern Sequence Information	O				YES	reject

Range Bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for a UE.
<i>MaxnoofRLs</i>	Maximum number of RLs for a UE.
<i>MaxnoofDLCodes</i>	Maximum number of Downlink Channelisation Codes.

Condition	Explanation
SF/2	This IE group is present only if the <i>Transmission Gap Pattern Sequence Information</i> 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".

## 9.1.47.2 TDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Node B Communication Context ID	M		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	M		9.2.1.62		–	
<b>UL CCTrCH to modify</b>		0..<maxn oofCCTr CHs>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
<b>UL CCTrCH to delete</b>		0..<maxn oofCCTr CHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DL CCTrCH to modify</b>		0..<maxn oofCCTr CHs>			EACH	notify
>CCTrCH ID	M		9.2.3.3		–	
>TFCS	O		9.2.1.58		–	
>Puncture Limit	O		9.2.1.50		–	
<b>DL CCTrCH to delete</b>		0..<maxn oofCCTr CHs>			EACH	notify
>CCTrCH ID	M				–	
<b>DCHs to Modify</b>		0..<maxn oofDCHs >			GLOBAL	reject
>UL FP Mode	O		9.2.1.66		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	O		9.2.3.3	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	O		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	O		9.2.1.59	For the UL.	–	
>>Transport Format Set	O		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	O		9.2.1.30		–	
<b>DCHs to Add</b>		0..<maxn oofDCHs >			GLOBAL	reject
>Payload CRC Presence Indicator	M		9.2.1.49		–	
>UL FP Mode	M		9.2.1.66		–	
>ToAWS	M		9.2.1.61		–	

>ToAWE	M		9.2.1.60		–	
<b>&gt;DCH Specific Info</b>		1..<maxn oofDCHs >			–	
>>DCH ID	M		9.2.1.20		–	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped.	–	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	–	
>>Transport Format Set	M		9.2.1.59	For the UL.	–	
>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>Frame Handling Priority	M		9.2.1.30		–	
>>QE-Selector	M		9.2.1.50A		–	
<b>DCHs to Delete</b>		0..<maxn oofDSCH s>			GLOBAL	reject
>DCH ID	M		9.2.1.20		–	
<b>DSCH Information to modify</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
>CCTrCH ID	O		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	O		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	O		9.2.1.61		–	
>ToAWE	O		9.2.1.60		–	
<b>DSCH Information to add</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.29		–	
>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DSCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>Frame handling Priority	O		9.2.1.30		–	
>ToAWS	M		9.2.1.61		–	
>ToAWE	M		9.2.1.60		–	
<b>DSCH Information to delete</b>		0 .. <Maxnoo f DSCHs>			GLOBAL	reject
>DSCH ID	M		9.2.1.27		–	
<b>USCH Information to modify</b>		0 .. <Maxnoo f USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	O		9.2.3.2	UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	O		9.2.1.59		–	
<b>USCH Information to add</b>		0 ..			GLOBAL	reject



		<Maxnoof USCHs>				
>USCH ID	M		9.2.3.27		–	
>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the USCH is mapped	–	
>Transport Format Set	M		9.2.1.59		–	
>QE-Selector	M		9.2.1.50A		–	
<b>USCH Information to delete</b>		0 .. <Maxnoof USCHs>			GLOBAL	reject
>USCH ID	M		9.2.3.27		–	
<b>RL Information</b>		0..1			YES	reject
>RL ID	M		9.2.1.53		–	
>Maximum Downlink Power	O		DL Power 9.2.1.21		–	
>Minimum Downlink Power	O		DL Power 9.2.1.21		–	
>Time slot ISCP Info		0..<maxnoofDLts>			–	
>>Time slot	M		<a href="#">9.2.3.23</a>		–	
>> <a href="#">DL Time slot ISCP DL Timeslot ISCP</a>	M		<a href="#">9.2.3.4B</a>		–	

Range bound	Explanation
<i>MaxnoofDCHs</i>	Maximum number of DCHs for a UE.
<i>MaxnoofCCTrCHs</i>	Maximum number of CCTrCHs for a UE.
<i>MaxnoofDSCHs</i>	Maximum number of DSCHs for one UE
<i>MaxnoofUSCHs</i>	Maximum number of USCHs for one UE
<i>MaxnoofDLts</i>	Maximum number of Downlink time slots per Radio Link

### 9.2.1.11 Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Measurement Type			ENUMERATED (RSSI, Transmitted Carrier Power, Acknowledged RA tries, <a href="#">UL</a> Timeslot ISCP, Acknowledged PCPCH Access Preambles, Detected PCPCH Access Preambles, ...)	

### 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.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
>Transmitted Carrier Power Value	C <i>MeasValue</i>		INTEGER(0..100)	According to mapping in [4] and [5]
>RSSI Value	C <i>MeasValue</i>		INTEGER(0..621)	According to mapping in [4] and [5]
>Acknowledged RA tries Value	C <i>MeasValue</i>		INTEGER(0..240, ...)	The number of L1 acknowledged random access tries per every 20 ms period.
> <u>UL</u> Timeslot ISCP (TDD only)	C <i>MeasValue</i>		INTEGER(0..81)	According to mapping in [5][23]
>Acknowledged PCPCH Access Preambles (FDD only)	C <i>MeasValue</i>		INTEGER(0..15)	According to mapping in [4]
>Detected PCPCH Access Preambles (FDD only)	C <i>MeasValue</i>		INTEGER(0..240)	According to mapping in [4]

Condition	Explanation
<i>MeasValue</i>	Only one measurement value can be present at the same time.

### 9.2.1.43 Measurement Increase/Decrease Threshold

The Measurement Increase/Decrease Threshold defines the threshold that shall trigger Event C or D.

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
RSSI	<i>C – Threshold</i>		INTEGER(0..620)	0: 0 dB 1: 0.1 dB 2: 0.2 dB ... 620: 62dB
Transmitted Carrier Power	<i>C – Threshold</i>		INTEGER(0..100)	According to mapping in [4] and [5]
Acknowledged RA tries	<i>C – Threshold</i>		INTEGER(0..240,...)	The number of L1 acknowledged random access tries per every 20 ms period.
<u>UL</u> Timeslot ISCP	<i>C – Threshold</i>		INTEGER(0..80)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 80: 40dB
SIR	<i>C – Threshold</i>		INTEGER(0..62)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 62: 31dB
SIR Error	<i>C – Threshold</i>		INTEGER(0..124)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 124: 62 dB
Transmitted Code Power	<i>C – Threshold</i>		INTEGER(0..112,...)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 112: 56 dB
RSCP	<i>C – Threshold</i>		INTEGER(0..80)	0: 0 dB 1: 0.5 dB 2: 1 dB ... 80: 40dB
Round Trip Time	<i>C – Threshold</i>		INTEGER(0..8190)	0: 0 chips 1: 0.25 chips 2: 0.5 chips ... 8190: 2047.5 chips
Acknowledged PCPCH Access Preambles	<i>C – Threshold</i>		INTEGER(0..15)	According to mapping in [4] (FDD only)
Detected PCPCH Access Preambles	<i>C – Threshold</i>		INTEGER(0..240)	According to mapping in [4] (FDD only)

Condition	Explanation
<i>Threshold</i>	Only one measurement threshold can be present at the same time.

#### 9.2.1.44 Measurement Threshold

The Measurement Threshold defines which threshold that shall trigger Event A, B, E or F.

Information Element / Group Name	Presence	Range	IE Type and Reference	Semantics Description
RSSI	<i>C – Threshold</i>		INTEGER(0..621)	According to mapping in [4] and [5]
Transmitted Carrier Power	<i>C – Threshold</i>		INTEGER(0..100)	According to mapping in [4] and [5]
Acknowledged RA tries	<i>C – Threshold</i>		INTEGER(0..240,...)	The number of L1 acknowledged random access tries per every 20 ms period.
<u>UL</u> Timeslot ISCP	<i>C – Threshold</i>		INTEGER(0..81)	According to mapping in <del>[5]</del> [23] (TDD only)
SIR	<i>C – Threshold</i>		INTEGER(0..63)	According to mapping in [4] and [5]
SIR Error	<i>C – Threshold</i>		INTEGER(0..125)	SIR_Error=SIR-SIR_target 0: < -31.0 dB 1: -31.0dB ≤ SIR_Error < 30.5dB 2: -30.5dB ≤ SIR_Error < 30.0dB ... 62: -0.5dB ≤ SIR_Error < 0dB 63: 0dB ≤ SIR_Error < 0.5dB ... 124: 30.5dB ≤ SIR_Error < 31dB 125: ≥ 31dB
Transmitted Code Power	<i>C – Threshold</i>		INTEGER(0..127)	According to mapping in [4] and [5]
RSCP	<i>C – Threshold</i>		INTEGER(0..81)	According to mapping in [5] (TDD only)
Rx Timing Deviation	<i>C – Threshold</i>		INTEGER(0..2047)	According to mapping in [5] (TDD only)
Round Trip Time	<i>C – Threshold</i>		INTEGER(0..8191)	According to mapping in [4] (FDD only)
Acknowledged PCPCH Access Preambles	<i>C – Threshold</i>		INTEGER(0..15)	According to mapping in [4] (FDD only)
Detected PCPCH Access Preambles	<i>C – Threshold</i>		INTEGER(0..240)	According to mapping in [4] (FDD only)

Condition	Explanation
<i>Threshold</i>	Only one measurement threshold can be present at the same time.

### 9.3.3 NBAP PDU Content Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents -- { object identifier to be allocated }--
DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-TransmissionTiming,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    BlockSTTD-Indicator,
    BurstType,
    Cause,
    CCH-CH-ID,
    CDSubChannelNumbers,
    CellParameterID,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,
    CommonChannelsCapacityConsumptionLaw,
    Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD,
    CommonMeasurementType,
    CommonMeasurementValue,
    CommonPhysicalChannelID,
    CommonTransportChannelID,
    CommunicationControlPortID,
    ConfigurationGenerationID,
    ConstantValue,

```

```
CriticalityDiagnostics,  
CPCH-Allowed-Total-Rate,  
CPCHScramblingCodeNumber,  
CPCH-UL-DPCCH-SlotFormat,  
CRNC-CommunicationContextID,  
DCH-ID,  
DedicatedChannelsCapacityConsumptionLaw,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
D-FieldLength,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DLPowerAveragingWindowSize,  
DL-ScramblingCode,  
DL-TimeslotISCP,  
DL-TPC-Pattern01Count,  
DPCH-ID,  
DSCH-ID,  
-- to do  
DSCH-TFS,  
FDD-DL-ChannelisationCodeNumber,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FrameHandlingPriority,  
FrameOffset,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
IndicationType,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
MaximumTransmissionPower,  
Max-Number-of-PCPCHes,  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleShift,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
NEOT,  
NFmax,  
N-INSYNC-IND,  
N-OUTSYNC-IND,
```

NodeB-CommunicationContextID,  
NStartMessage,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
PCP-Length,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PowerAdjustmentType,  
PowerOffset,  
PowerRaiseLimit,  
PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PrimaryCPICH-Power,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
ScramblingCodeNumber,  
SecondaryCCPCH-SlotFormat,  
S-FieldLength,  
SFN,  
ShutdownTimer,  
SIB-Originator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
T-Cell,  
T-RLFAILURE,  
TDD-ChannelisationCode,  
TDD-TPC-DownlinkStepSize,

```

TDD-PhysicalChannelOffset,
TFCI-Coding,
TFCI-Presence,
TFCI-SignallingMode,
TFCS,
TimeSlot,
TimeSlotDirection,
TimeSlotStatus,
ToAWE,
ToAWS,
TransmissionDiversityApplied,
TransmitDiversityIndicator,

TransmissionGapPatternSequenceCodeInformation,
Transmission-Gap-Pattern-Sequence-Information,
TransportFormatSet,
TransportLayerAddress,
TSTD-Indicator,
UARFCN,
UL-CapacityCredit,
UL-DPCCH-SlotFormat,
UL-SIR,
UL-FP-Mode,
UL-InterferenceLevel,
UL-ScramblingCode,
UL-TimeslotISCP-Value-IncrDecrThres,
USCH-ID
FROM NBAP-IEs

```

```

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

```

### 9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

```

```

.
.
.

```



<Parts of the ASN.1 module is omitted>

•  
•  
•

```
-- =====  
-- C  
-- =====
```

```
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 {  
    transaction-not-allowed,  
    transfer-syntax-error,  
    abstract-syntax-error-reject,  
    abstract-syntax-error-ignore-and-notify,  
    message-not-compatible-with-receiver-state,  
    semantic-error,  
    unspecified,  
    ...  
}
```

```
CauseRadioNetwork ::= ENUMERATED {  
    unknown-C-ID,  
    cell-not-available,  
    power-level-not-supported,  
    ul-scramblingcode-already-in-use,  
    dl-radio-resources-not-available,  
    ul-radio-resources-not-available,  
    rl-already-ActivatedOrAllocated,  
    nodeB-Resources-unavailable,  
    insufficient-physical-channel-resources,  
    measurement-not-supported-for-the-object,  
    combining-resources-not-available,  
    reconfiguration-not-allowed,  
    requested-configuration-not-supported,
```

```
synchronisation-failure,
sIB-Origination-in-Node-B-not-Supported,
unspecified,
priority-transport-channel-established,
bCCH-scheduling-error,
measurement-temporarily-not-available,
no-closed-loop-timing-adjustment-mode-configured,
invalid-CM-settings,
...
}

CauseTransport ::= ENUMERATED {
    transport-link-failure,
    transmission-port-not-available,
    transport-resource-unavailable,
    unspecified,
    ...
}

CCTrCH-ID ::= INTEGER (0..15)

CDSubChannelNumbers ::= BIT STRING (SIZE (12))

CellParameterID ::= INTEGER (0..127)

CFN ::= INTEGER (0..255)

Channel-Assignment-Indication ::= ENUMERATED {
    cA-Active,
    cA-Inactive
}

ChipOffset ::= INTEGER (0..38399)
-- Unit Chip

C-ID ::= INTEGER (0..65535)

Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    ...
}

CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
SEQUENCE {
    dl-Cost      INTEGER (0..65535),
    ul-Cost      INTEGER (0..65535)
}

CommonMeasurementType ::= ENUMERATED {
    rssi,
```

```
    transmitted-carrier-power,
    acknowledged-ra-tries,
    time-slot-iseq,
    ul-timeslot-iscp,
    acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles,
    ...
}

CommonMeasurementValue ::= CHOICE {
    transmitted-carrier-power      Transmitted-Carrier-Power-Value,
    rssi                           RSSI-Value,
    acknowledged-ra-tries         Acknowledged-RA-Tries-Value,
    time-slot-iseq              TimeSlot-ISCPC-Value,
    uL-TimeslotISCP            UL-TimeslotISCPC-Value,
    acknowledged-PCPCH-access-preambles  Acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles      Detected-PCPCH-access-preambles,
    ...
}

CommonPhysicalChannelID ::= INTEGER (0..255)

CommonTransportChannelID ::= INTEGER (0..255)

CommunicationControlPortID ::= INTEGER (0..65535)

Compressed-Mode-Deactivation-Flag-RL-AdditionRqstFDD ::= ENUMERATED {
    on,
    off
}
-- on=deactivate

ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"

ConstantValue ::= INTEGER (-10..10)
-- -10 dB - +10 dB
-- unit dB
-- step 1 dB

CPCH-Allowed-Total-Rate ::= ENUMERATED {
    v15,
    v30,
    v60,
    v120,
    v240,
    v480,
    v960,
    v1920,
    v2880,
```

```

v3840,
v4800,
v5760,
...
}

CPCHScramblingCodeNumber ::= INTEGER (0..79)

CPCH-UL-DPCCH-SlotFormat ::= INTEGER (0..2)

CriticalityDiagnostics ::= SEQUENCE {
    procedureCode          ProcedureCode          OPTIONAL,
    triggeringMessage      TriggeringMessage      OPTIONAL,
    criticalityResponse    Criticality             OPTIONAL,
    transactionID          TransactionID          OPTIONAL,
    iEsCriticalityResponses CriticalityDiagnostics-IE-List,
    iE-Extensions          ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
SEQUENCE {
    criticalityResponse Criticality,
    iE-ID                ProtocolIE-ID,
    repetitionNumber     RepetitionNumber          OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-IE-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CRNC-CommunicationContextID ::= INTEGER (0..1048575)

.
.
.
<Parts of the ASN.1 module is omitted>
.
.
.

-- =====
-- R
-- =====

```

```

RACH-SlotFormat ::= ENUMERATED {
    v0,
    v1,
    v2,
    v3,
    ...
}

RACH-SubChannelNumbers ::= BIT STRING (SIZE (12))
-- Bit 0=Sub Channel Number 0, Bit 1=Sub Channel Number 1, ..., Bit 11=Sub Channel Number 11

RepetitionLength ::= INTEGER (1..63)

RepetitionPeriod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    v16,
    v32,
    v64,
    ...
}

RepetitionNumber ::= INTEGER (0..255)

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,
    ...
}

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-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
    rssi                    RSSI-Value-IncrDecrThres,
    transmitted-carrier-power    Transmitted-Carrier-Power-Value,
    acknowledged-ra-tries      Acknowledged-RA-Tries-Value,
    timeslot-iseq          TimeSlot-ISCP-Value-IncrDecrThres,
    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,
    acknowledged-PCPCH-access-preambles    Acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles    Detected-PCPCH-access-preambles,
    ...
}

ReportCharacteristicsType-MeasurementThreshold ::= CHOICE {
    rssi                    RSSI-Value,
    transmitted-carrier-power    Transmitted-Carrier-Power-Value,
    acknowledged-ra-tries      Acknowledged-RA-Tries-Value,
    timeslot-iseq          TimeSlot-ISCP-Value,
    uL-TimeslotISCP        UL-TimeslotISCP-Value,
    sir                    SIR-Value,
    sir-error              SIR-Error-Value,
    transmitted-code-power    Transmitted-Code-Power-Value,
    rscp                   RSCP-Value,
    round-trip-time        Round-Trip-Time-Value,
    rx-timing-deviation      Rx-Timing-Deviation-Value,
    acknowledged-PCPCH-access-preambles    Acknowledged-PCPCH-access-preambles,
    detected-PCPCH-access-preambles    Detected-PCPCH-access-preambles,
    ...
}

ReportCharacteristicsType-ScaledMeasurementChangeTime ::= INTEGER (1..600)
-- ReportCharacteristicsType-MeasurementChangeTime = Time * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms

ReportCharacteristicsType-ScaledMeasurementHysteresisTime ::= INTEGER (1..600)
-- ReportCharacteristicsType-MeasurementHysteresisTime = Time * 10
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms

ReportCharacteristicsType-ReportPeriodicity ::= CHOICE {

```

```
    msec          ReportPeriodicity-Scaledmsec,  
    min          ReportPeriodicity-Scaledmin  
}
```

```
ReportPeriodicity-Scaledmsec ::= INTEGER (1..600)  
-- ReportPeriodicity-msec = ReportPeriodicity * 10  
-- Unit ms, Range 10ms .. 6000ms(1min), Step 10ms
```

```
ReportPeriodicity-Scaledmin ::= INTEGER (1..60)  
-- Unit min, Range 1min .. 60min(hour), Step 1min
```

```
ResourceOperationalState ::= ENUMERATED {  
    enabled,  
    disabled,  
    ...  
}
```

```
LimitedPowerIncrease ::= ENUMERATED {  
    used,  
    not-used  
}
```

```
RL-ID ::= INTEGER (0..31)
```

```
RL-Set-ID          ::= INTEGER (0..31)
```

```
RPM      ::= ENUMERATED {  
    mode-0,  
    mode-1  
}
```

```
Round-Trip-Time-IncrDecrThres ::= INTEGER(0..8190)
```

```
Round-Trip-Time-Value ::= INTEGER(0..8191)  
-- According to mapping in 25.215
```

```
RSCP-Value ::= INTEGER (0..81)  
-- According to mapping in [5]
```

```
RSCP-Value-IncrDecrThres ::= INTEGER (0..80)
```

```
RSSI-Value ::= INTEGER(0..621)  
-- According to mapping in [4]/[5]
```

```
RSSI-Value-IncrDecrThres ::= INTEGER (0..620)
```

```
Rx-Timing-Deviation-Value ::= INTEGER (0..2047)
```

```
•  
•
```



```
.
.<Parts of the ASN.1 module is omitted>
.
.

-- =====
-- T
-- =====

T-Cell ::= ENUMERATED {
    v0,
    v1,
    v2,
    v3,
    v4,
    v5,
    v6,
    v7,
    v8,
    v9,
    ...
}

T-RLFFAILURE ::= INTEGER (0..255)
-- Unit seconds, Range 0s .. 25.5s, Step 0.1s

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-PhysicalChannelOffset ::= INTEGER (0..63)

TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size1,
    step-size2,
    step-size3,
    ...
}

TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors      SEQUENCE {
        betaC                  BetaCD,
        betaD                  BetaCD,
        refTFCNumber           RefTFCNumber    OPTIONAL
    },
    computedGainFactors       RefTFCNumber
}

TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    ...
}

TFCI-Presence ::= ENUMERATED {
    present,
    not-present,
    ...
}

TFCI-SignallingMode ::= SEQUENCE {
    tFCI-SignallingOption     TFCI-SignallingMode-TFCI-SignallingOption,
    splitType                 TFCI-SignallingMode-SplitType             OPTIONAL,
    -- This IE is only present if TFCI signalling option is split --
    lengthOfTFCI2             TFCI-SignallingMode-LengthOfTFCI2        OPTIONAL,
    -- This IE is only present if split type is logical --
    iE-Extensions             ProtocolExtensionContainer { { TFCI-SignallingMode-ExtIEs } }  OPTIONAL,
    ...
}

```

```
TFCI-SignallingMode-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCI-SignallingMode-LengthOfTFCI2 ::= INTEGER (1..10)

TFCI-SignallingMode-SplitType ::= ENUMERATED {
    hard,
    logical,
    ...
}

TFCI-SignallingMode-TFCI-SignallingOption ::= ENUMERATED {
    normal,
    split,
    ...
}

TGD                ::= INTEGER (0|15..269)
-- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence

TGPRC              ::= INTEGER (0..63)
-- 0 = infinity

TGPSI              ::= INTEGER (1.. maxTGPS)

TGSN                ::= INTEGER (0..14)

TimeSlot ::= INTEGER (0..14)

TimeSlotDirection ::= ENUMERATED {
    ul,
    dl,
    ...
}

TimeSlot-ISCP-Value ::= INTEGER (0..81)
— According to mapping in [5]

TimeSlot-ISCP-Value-IncrDecrThres ::= INTEGER (0..80)

TimeSlotStatus ::= ENUMERATED {
    active,
    not-active,
    ...
}

ToAWE ::= INTEGER (0..2559)
```

```

-- Unit ms

ToAWS ::= INTEGER (0..1279)
-- Unit ms

Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF
SEQUENCE {
    tGPSI          TGPSI,
    tGSN           TGSN,
    tGL1           GapLength,
    tGL2           GapLength  OPTIONAL,
    tGD            TGD,
    tGPL1          GapDuration,
    tGPL2          GapDuration OPTIONAL,
    rPM            RPM,
    iTPPRM         ITPPRM,
    uL-DL-mode     UL-DL-mode,
    downlink-Compressed-Mode-Method Downlink-Compressed-Mode-Method  OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "DL only" or "UL/DL"
    uplink-Compressed-Mode-Method  Uplink-Compressed-Mode-Method  OPTIONAL,
    -- This IE is only present if the value of the UL/DL mode IE is "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,
    nocode-change
}

Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- According to mapping in [4]/[5]

```

```

Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in [4]/[5]

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-TFCSList,
            split-in-TFCI             SEQUENCE {
                transportFormatCombination-DCH    TFCS-DCHList,
                signallingMethod                   CHOICE {
                    tFCI-Range                     TFCS-MappingOnDSCHList,
                    explicit                         TFCS-DSCHList
                }
            }
        },
    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,
        iE-Extensions ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs } }    OPTIONAL,
        ...
    }

TFCS-TFCSList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TFCS-CTFC ::= INTEGER (0..maxCTFC)

TFCS-DCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI1Combs)) OF
    SEQUENCE {
        cTFC          TFCS-CTFC,

```

```

    iE-Extensions      ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs} }      OPTIONAL,
  }
  ...
}

TFCS-DCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCS-MappingOnDSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCIGroups)) OF
  SEQUENCE {
    maxTFCI-field2-Value      TFCS-MaxTFCI-field2-Value,
    cTFC-DSCH                 TFCS-CTFC,
    iE-Extensions             ProtocolExtensionContainer { { TFCS-MappingOnDSCHList-ExtIEs} }      OPTIONAL,
    ...
  }

TFCS-MappingOnDSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxNrOfTFCI2Combs-1)

TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxNrOfTFCI2Combs)) OF
  SEQUENCE {
    cTFC-DSCH                 TFCS-CTFC,
    iE-Extensions             ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs} }      OPTIONAL,
    ...
  }

TFCS-DSCHList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

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 is only present if "Number of Transport Blocks" is greater than 0
    mode                        TransportFormatSet-ModeDP,
    iE-Extensions               ProtocolExtensionContainer { { TransportFormatSet-DynamicPartList-ExtIEs} }      OPTIONAL,
  }

```

```

    }
    ...
}

TransportFormatSet-DynamicPartList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransmissionTimeIntervalList ::= SEQUENCE (SIZE (1..maxTTI-count)) OF
    SEQUENCE {
        transmissionTimeInterval      TransportFormatSet-TransmissionTimeInterval,
        iE-Extensions                 ProtocolExtensionContainer { { TransmissionTimeIntervalList-ExtIEs} } OPTIONAL,
        ...
    }

TransmissionTimeIntervalList-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-Semi-staticPart ::= SEQUENCE {
    transmissionTimeInterval          TransportFormatSet-TransmissionTimeInterval OPTIONAL,
    -- This IE is mandatory if not defined sa dynamic parameter. Otherwise it is absent
    channelCoding                    TransportFormatSet-ChannelCodingType,
    codingRate                        TransportFormatSet-CodingRate OPTIONAL,
    -- This IE is only present if channelCoding is 'convolutional' or 'turbo'
    rateMatchingAttribute            TransportFormatSet-RateMatchingAttribute,
    crc-Size                          TransportFormatSet-CRC-Size,
    mode                              TransportFormatSet-ModeSSP ,
    iE-Extensions                    ProtocolExtensionContainer { { TransportFormatSet-Semi-staticPart-ExtIEs} } OPTIONAL,
    ...
}

TransportFormatSet-Semi-staticPart-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

TransportFormatSet-ChannelCodingType ::= ENUMERATED {
    no-coding,
    convolutional-coding,
    turbo-coding,
    ...
}

TransportFormatSet-CodingRate ::= ENUMERATED {
    half,
    third,
    ...
}

TransportFormatSet-CRC-Size ::= ENUMERATED {
    v0,
    v8,

```

```
v12,  
v16,  
v24,  
...  
}  
  
TransportFormatSet-ModeDP ::= CHOICE {  
    tdd          TransmissionTimeIntervalList,  
    -- This IE is mandatory if not defined as semistatic parameter, otherwise it is absent  
    notApplicable    NULL,  
    ...  
}  
  
TransportFormatSet-ModeSSP ::= CHOICE {  
    tdd          TransportFormatSet-SecondInterleavingMode,  
    notApplicable    NULL,  
    ...  
}  
  
TransportFormatSet-NrOfTransportBlocks ::= INTEGER (0..4095)  
  
TransportFormatSet-RateMatchingAttribute ::= INTEGER (1..maxRateMatching)  
  
TransportFormatSet-SecondInterleavingMode ::= ENUMERATED {  
    frame-related,  
    timeSlot-related,  
    ...  
}  
  
TransportFormatSet-TransmissionTimeInterval ::= ENUMERATED {  
    msec-10,  
    msec-20,  
    msec-40,  
    msec-80,  
    ...  
}  
  
TransportFormatSet-TransportBlockSize ::= INTEGER (0..5000)  
  
TransportLayerAddress ::= BIT STRING (SIZE (1..160, ...))  
  
TSTD-Indicator ::= ENUMERATED {  
    active,  
    inactive,  
    ...  
}  
  
-- =====  
-- U  
-- =====
```



```
UARFCN ::= INTEGER (0..16383, ...)
-- corresponds to 1885.2MHz .. 2024.8MHz

UL-CapacityCredit ::= INTEGER (0..65535)

UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}

Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling
}

UL-DPCCH-SlotFormat ::= INTEGER (0..5)

UL-SIR ::= INTEGER (-82..173)
-- According to mapping in [16]

UL-FP-Mode ::= ENUMERATED {
    normal,
    silent,
    ...
}

UL-InterferenceLevel ::= INTEGER (-1280..-600)
-- UL-InterferenceLevel = InterferenceLevel * 10
-- Unit dBm, Range -128dBm .. -60dBm, Step 0.1dBm

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-TimeslotISCP-Value-IncrDecrThres ::= INTEGER (0..80)  
USCH-ID ::= INTEGER (0..255)  
  
-- =====  
-- V  
-- =====  
  
-- =====  
-- W  
-- =====  
  
-- =====  
-- X  
-- =====  
  
-- =====  
-- Y  
-- =====  
  
-- =====  
-- Z  
-- =====  
  
END
```

**CHANGE REQUEST**

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

**25.433 CR 211r1**

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #9**  
 list expected approval meeting # here ↑

for approval   
 for information

strategic   
 non-strategic  (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
 (at least one should be marked with an X)

**Source:** R-WG3 **Date:** Aug. 2000

**Subject:** Correction to FDD DL Channelisation Code Number IE definition.

**Work item:**

**Category:** F Correction  **Release:** Phase 2   
 A Corresponds to a correction in an earlier release  Release 96   
 B Addition of feature  Release 97   
 C Functional modification of feature  Release 98   
 D Editorial modification  Release 99   
 Release 00   
 (only one category shall be marked with an X)

**Reason for change:** Currently in the R3 specifications the definition for FDD DL Channelisation Code Number is INTEGER (0..255) with the schematic description "The maximum value is equal to the DL spreading factor -1". Since the maximum value for the DL spreading factor is 512 it is proposed to correct the IE type and reference definition of FDD DL Channelisation Code Number IE.  
 Rev1: Reference to specification 25.213 added

**Clauses affected:** 9.2.2.14, 9.3.4

**Other specs affected:** Other 3G core specifications  → List of CRs:  
 Other GSM core specifications  → List of CRs:  
 MS test specifications  → List of CRs:  
 BSS test specifications  → List of CRs:  
 O&M specifications  → List of CRs:

**Other comments:**



<----- double-click here for help and instructions on how to create a CR.

## 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.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
FDD DL ChannelisationCode Number			INTEGER(0.. <del>511</del> 255)	<u>According to the mapping in [9].</u>  The maximum value is equal to the DL spreading factor –1

## 9.3.4 NBAP Information Elements

```

--*****
--
-- Information Element Definitions
--
--*****

```

Text omitted

```

-- =====
-- F
-- =====

```

```

FDD-DL-ChannelisationCodeNumber ::= INTEGER(0.. 511255)
-- According to the mapping in [9]. The maximum value is equal to the DL spreading factor -1--

```

```

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,
    ...
}

```

```

FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS,
    ...
}

```

```

FrameHandlingPriority ::= INTEGER (0..15)
-- 0=lower priority, 15=higher priority --

```

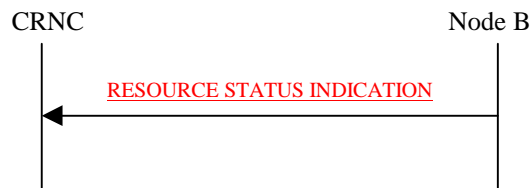
```

FrameOffset ::= INTEGER (0..255)

```



## 8.2.15.2 Successful Operation



**Figure 21: Resource Status Indication procedure: Successful Operation**

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

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 with the Local Cell Id IE and the Add/Delete Indicator IE set equal to 'Add'.

When a Local Cell is to be deleted in Node B, i.e. become Not Existing, the Node B shall withdraw the Local Cell from the CRNC by sending a RESOURCE STATUS INDICATION message with the Local Cell Id IE and the Add/Delete Indicator IE set equal 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.

When the capabilities of a Local Cell changes at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the Local Cell Id. The Add/Delete Indicator IE shall not be included in the message. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

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

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

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 with the Communication Control Port ID IE. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

When the resource capabilities of a Node B change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the NodeB Information IE group. The Cause IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value. If the RESOURCE STATUS INDICATION message contains both the "DL or Global Capacity Credit" and the "UL Capacity Credit" 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.

When the RESOURCE STATUS INDICATION 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 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.





## 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>CHOICE common physical channel to be configured</b>					YES	ignore
>Secondary CCPCH					YES	reject
<b>&gt;Secondary CCPCH</b>		1				
>>Common Physical Channel ID	M		9.2.1.13		–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to [7]: s-CCPCH,k	–	
>>DL Scrambling Code	M		9.2.2.13		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.54	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.43		–	
>>>TFCI Presence	C – SlotFormat		9.2.1.57		–	
>>Multiplexing Position	M		9.2.2.23		–	
<b>&gt;&gt;Power Offset Information</b>		1			–	
>>>PO1	M		Power Offset <a href="#">9.2.2.29</a>	Power offset for the TFCI bits	–	
>>>PO3	M		Power Offset <a href="#">9.2.2.29</a>	Power offset for the pilot bits	–	
>>STTD Indicator	M		9.2.2.47		–	
<b>&gt;&gt;FACH Parameters</b>	C-choiceCh	0..<maxnoofFACHs>			GLOBAL	reject
>>>Common transport channel ID	M		9.2.1.14		–	
>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>ToAWS	M		9.2.1.61		–	
>>>ToAWE	M		9.2.1.60		–	
>>>Max FACH Power	M		DL Power 9.2.1.21	Maximum allowed power on the FACH.	–	
<b>&gt;&gt;PCH Parameters</b>	C-choiceCh	0..1			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>ToAWS	M		9.2.1.61		–	
>>>ToAWE	M		9.2.1.60		–	

>>>PCH Power	M		DL Power 9.2.1.21		-	
<b>&gt;&gt;&gt;PICH Parameters</b>		1			-	
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>DL Scrambling Code	M		9.2.2.13		-	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		-	
>>>>PICH Power	M		DL Power 9.2.1.21	Power to be used on the PICH.	-	
>>>>PICH Mode	M		9.2.2.26	Number of PI per frame	-	
>>>>STTD Indicator	M		9.2.2.48		-	
>PRACH					YES	reject
<b>&gt;PRACH</b>		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		-	
<b>&gt;&gt;Allowed Slot Format Information</b>		1..<Maximum of Slots PRA CH>			-	
>>>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		-	
<b>&gt;&gt;RACH Parameters</b>		1			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>Transport Format Set	M		9.2.1.59	For the UL.	-	
<b>&gt;&gt;&gt;AICH Parameters</b>		1			-	
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>DL Scrambling Code	M		9.2.2.13		-	
>>>>AICH Transmission Timing	M		9.2.2.1		-	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		-	
>>>>AICH Power	M		DL Power 9.2.1.21		-	
>>>>STTD Indicator	M		9.2.2.47		-	
>PCPCHes					YES	Reject
<b>&gt;&gt;CPCH Parameters</b>		1			-	
>>>Common Transport Channel ID	M		<a href="#">9.2.1.14</a>		-	
>>>Transport Format Set	M		<a href="#">9.2.1.59</a>	For the UL.	-	
>>>AP Preamble Scrambling Code	M		CPCH Scrambling Code Number <a href="#">9.2.2.4B</a>		-	

>>>CD Preamble Scrambling Code	M		CPCH Scrambling Code Number <a href="#">9.2.2.4B</a>		-	
>>>TFCS	M		<a href="#">9.2.1.58</a>	For the UL	-	
>>>CD Signatures	O		Preamble Signatures <a href="#">9.2.2.31</a>	Note: When not present, all CD signatures are to be used.	-	
>>>CD Sub Channel Numbers	C-CDSig		<a href="#">9.2.2.1C</a>		-	
>>>Puncture Limit	M		<a href="#">9.2.1.50</a>	For the UL	-	
>>>CPCH UL DPCCH Slot Format	M		<a href="#">9.2.2.4C</a>	For UL CPCH message control part	-	
>>>UL SIR	M		UL SIR <a href="#">9.2.2.58</a>		-	
>>>Initial DL transmission Power	M		DL Power <a href="#">9.2.1.21</a>		-	
>>>Maximum DL Power	M		DL Power <a href="#">9.2.1.21</a>		-	
>>>Minimum DL Power	M		DL Power <a href="#">9.2.1.21</a>		-	
>>>PO2	M		Power Offset <a href="#">9.2.2.29</a>	Power offset for the TPC bits	-	
>>>PO3	M		Power Offset <a href="#">9.2.2.29</a>	Power offset for the pilot bits	-	
>>>FDD TPC DL Step Size	M		<a href="#">9.2.2.16</a>		-	
>>>N_Start_Message	M		<a href="#">9.2.2.23C</a>		-	
>>>N_EOT	M		<a href="#">9.2.2.23A</a>		-	
>>>Channel Assignment Indication	M		<a href="#">9.2.2.1D</a>		-	
>>>CPCH Allowed Total Rate	M		<a href="#">9.2.2.4A</a>		-	
>>> <b>PCPCH Channel Information</b>		<i>1..&lt;maxnoofPCPCHs&gt;</i>			-	
>>>>Common Physical Channel ID	M		<a href="#">9.2.1.13</a>		-	
>>>>CPCH Scrambling Code Number	M		<a href="#">9.2.2.4B</a>	For UL PCPCH	-	
>>>>DL Scrambling Code	M		<a href="#">9.2.2.13</a>	For DL CPCH message part	-	
>>>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>	For DL CPCH message part	-	
>>>>PCP Length	M		<a href="#">9.2.2.24A</a>		-	
>>>> <b>UCSM Information</b>	C-NCA	1			-	

>>>>Min UL Channelisation Code Length	M		<a href="#">9.2.2.22</a>		-	
>>>>NF_max	M		<a href="#">9.2.2.23B</a>		-	
<b>&gt;&gt;&gt;&gt;Channel Request Parameters</b>		0..<maxAPSig Num>			-	
>>>>>AP Preamble Signature	M		<a href="#">9.2.2.1A</a>		-	
>>>>>AP Sub Channel Number	O		<a href="#">9.2.2.1B</a>		-	
<b>&gt;&gt;&gt;VCAM Mapping Information</b>	C-CA	1..<maxnoofLen>		Refer to TS [18]	-	
>>>>Min UL Channelisation Code Length	M		<a href="#">9.2.2.22</a>		-	
>>>>NF_max	M		<a href="#">9.2.2.23B</a>		-	
>>>>Max Number of PCPCHes	M		<a href="#">9.2.2.20A</a>		-	
<b>&gt;&gt;&gt;&gt;SF Request Parameters</b>		1..<maxAPSig Num>			-	
>>>>>AP Preamble Signature	M		<a href="#">9.2.2.1A</a>		-	
>>>>>AP Sub Channel Number	O		<a href="#">9.2.2.1B</a>		-	
<b>&gt;&gt;&gt;&gt;AP-AICH Parameters</b>		1			-	
>>>>Common Physical Channel ID	M		<a href="#">9.2.1.13</a>		-	
>>>>DL Scrambling Code	M		<a href="#">9.2.2.13</a>		-	
>>>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		-	
>>>>AP-AICH Power	M		DL Power <a href="#">9.2.1.21</a>		-	
>>>>CSICH Power	M		DL Power <a href="#">9.2.1.21</a>	For CSICH bits at end of AP-AICH slot	-	
>>>>STTD Indicator	O		<a href="#">9.2.2.47</a>		-	
<b>&gt;&gt;&gt;&gt;CD/CA-ICH Parameters</b>		1			-	
>>>>Common Physical Channel ID	M		<a href="#">9.2.1.13</a>		-	
>>>>DL Scrambling Code	M		<a href="#">9.2.2.13</a>		-	
>>>>FDD DL Channelisation Code Number	M		<a href="#">9.2.2.14</a>		-	
>>>>CD/CA-ICH Power	M		DL Power <a href="#">9.2.1.21</a>		-	
>>>>STTD Indicator	O		<a href="#">9.2.2.47</a>		-	

<b>Condition</b>	<b>Explanation</b>
SlotFormat	This IE is present only if the Secondary CCPCH Slot Format is equal to any of the value 8 to 17
<i>ChoiceCh</i>	One of the channels FACH or PCH or both must be present.
<i>CDSig</i>	The IE may be present if the Available CD Signatures is present.
CA	The IE must be present if the Channel Assignment Indication is set to 'CA Active'.
NCA	The IE must be present if the Channel Assignment Indication is set to 'CA Inactive'.

<b>Range bound</b>	<b>Explanation</b>
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH.
<i>MaxnoofPCPCHs</i>	Maximum number of PCPCHs for a CPCH
<i>MaxnoofLen</i>	Maximum number of Min UL Channelisation Code Length
<i>MaxnoofSlotFormatsPRACH</i>	Maximum number of SF for a PRACH
<i>MaxAPSigNum</i>	Maximum number of AP Signatures.

## 9.1.4 COMMON TRANSPORT CHANNEL SETUP RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>FACH Parameters</b>		<i>0..max numberOf ACHs</i>		The FACH Parameters may be combined with PCH Parameters	GLOBAL	ignore
>Common Transport Channel ID	M		9.2.1.14		–	
>Binding ID	M		9.2.1.4		–	
>Transport layer address	M		9.2.1.63		–	
<b>PCH Parameters</b>		<i>0..1</i>		The PCH Parameters may be combined with FACH Parameters	GLOBAL	ignore
>Common transport channel ID	M		9.2.1.14		–	
>Binding ID	M		9.2.1.4		–	
>Transport layer address	M		9.2.1.63		–	
<b>RACH parameters</b>		<i>0..1</i>		The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters	GLOBAL	ignore
>Common transport channel ID	M		9.2.1.14		–	
>Binding ID	M		9.2.1.4		–	
>Transport layer address	M		9.2.1.63		–	
<b>CPCH parameters</b>		<i>0..1</i>		The CPCH Parameters shall not be combined with FACH Parameters or PCH Parameters or RACH Parameters	GLOBAL	ignore
<a href="#">&gt;Common transport channel ID</a> <del>&gt;Common transport channel ID</del>	M		<a href="#">9.2.1.14</a>		–	
<a href="#">&gt;Binding ID</a> <del>&gt;Binding ID</del>	M		<a href="#">9.2.1.4</a>		–	
<a href="#">&gt;Transport layer address</a> <del>&gt;Transport layer address</del>	M		<a href="#">9.2.1.63</a>		–	
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH[FDD] / a group of Secondary CCPCHs [TDD].

## 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

### 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>CHOICE common physical channel to be reconfigured</b>					YES	reject
> <i>Secondary CCPCH</i>					YES	reject
>> <b>FACH parameters</b>		0..<maxFACHCell>			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Max FACH Power	O		DL Power 9.2.1.21	Maximum allowed power on the FACH.	–	
>>>ToAWS	O		9.2.1.61		–	
>>>ToAWE	O		9.2.1.60		–	
>> <b>PCH Parameters</b>		0..1			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>PCH Power	O		DL Power 9.2.1.21	Power to be used on the PCH.	–	
>>>ToAWS	O		9.2.1.61		–	
>>>ToAWE	O		9.2.1.60		–	
>> <b>PICH Parameters</b>		0..1			YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>PICH Power	M		DL Power 9.2.1.21	Power to be used on the PICH.	–	
> <i>PRACH</i>					YES	reject
>> <b>PRACH Parameters</b>		0..<MaxPRACHCell>			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Preamble Signatures	M		9.2.2.31		–	
>>> <b>Allowed Slot Format Information</b>		0..<Maxno ofSlotFormatsPRACH>			–	
>>>>RACH Slot Format	M		9.2.2.37		–	
>>>>RACH Sub Channel Numbers	O		9.2.2.38		–	
>> <b>AICH Parameters</b>		0..<MaxPRACHCell>			GLOBAL	reject



		<i>ACHCell</i> >				
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>AICH Power	M		DL Power 9.2.1.21	Power to be used on the AICH.	–	
> <i>CPCH</i>					YES	reject
>> <b>CPCH Parameters</b>		<i>0..&lt;maxno ofCPCHs&gt;</i>			GLOBAL	reject
>>>Common Transport Channel ID	M		<a href="#">9.2.1.14</a>		–	
>>>UL SIR	O		<a href="#">9.2.2.58</a>		–	
>>>Initial DL transmission Power	O		DL Power <a href="#">9.2.1.21</a>		–	
>>>Maximum DL Power	O		DL Power <a href="#">9.2.1.21</a>		–	
>>>Minimum DL Power	O		DL Power <a href="#">9.2.1.21</a>		–	
>> <b>AP-AICH Parameters</b>		<i>0..&lt;maxno ofCPCHs&gt;</i>			GLOBAL	reject
>>>Common Physical Channel ID	M		<a href="#">9.2.1.13</a>		–	
>>>AP-AICH Power	M		DL Power <a href="#">9.2.1.21</a>		–	
>>>CSICH Power	O		DL Power <a href="#">9.2.1.21</a>	For CSICH bits at end of AP-AICH slot	–	
>> <b>CD/CA-ICH Parameters</b>		<i>0..&lt;maxno ofCPCHs&gt;</i>			GLOBAL	reject
>>>Common Physical Channel ID	M		<a href="#">9.2.1.13</a>		–	
>>>CD/CA-ICH Power	M		DL Power <a href="#">9.2.1.21</a>		–	

Range bound	Explanation
<i>MaxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<i>MaxnoofCPCHs</i>	Maximum number of CPCHs that can be defined in a Cell
MaxPRACHCell	Maximum number of PRACHs and AICHs that can be defined in a Cell
<i>MaxnoofSlotFormatsPRACH</i>	Maximum number of SF for a PRACH

## 9.1.17 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>Node B Information</b>		1				
>DL or Global Capacity Credit	M		9.2.2.12			
>UL Capacity Credit	O		9.2.2.60			
>Common Channels Capacity Consumption Law	M		9.2.2.3			
>Dedicated Channels Capacity Consumption Law	M		9.2.2.6			
<b>Cell Information</b>		0.. < maxCellin NodeB >			EACH	ignore
>C-ID	M		9.2.1.9		–	
>Configuration Generation ID	M		9.2.1.16			
>Resource Operational State	M		9.2.1.52		–	
>Availability Status	M		9.2.1.2		–	
>Local Cell ID	M		9.2.1.38	The local cell that the cell is configured on		
>Maximum DL Power Capability	FFS		9.2.1.39		–	
>Minimum Spreading Factor	FFS		9.2.1.47		–	
<b>&gt;Primary SCH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;Secondary SCH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;Primary CPICH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;Secondary CPICH Information</b>		0..<maxSC PICHCell>			EACH	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	

>>Availability Status	M		9.2.1.2		–	
<b>&gt;Primary CCPCH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;BCH Information</b>		0..1			YES	ignore
>>Common Transport Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;Secondary CCPCH Information</b>		0..<maxSC CPCHCell >			EACH	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;PCH Information</b>		0..1			EACH	ignore
>>Common Transport Channel ID	M		9.2.1.14		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;PICH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;FACH Information</b>		0..<maxFA CHCell>			EACH	ignore
>>Common Transport Channel ID	M		9.2.1.14		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;PRACH Information</b>		0..<maxPR ACHCell>			EACH	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;RACH Information</b>		0..<maxRA CHCell>			EACH	ignore
>>Common Transport Channel ID	M		9.2.1.14		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>&gt;AICH Information</b>		0..<maxRA CHCell>			EACH	ignore
>>Common Physical Channel ID	M		9.2.1.13		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	

<b>&gt;PCPCH Information</b>		<i>0..&lt;maxPC PCHCell&gt;</i>			EACH	ignore
>>Common Physical Channel ID	M		<a href="#">9.2.1.13</a>		–	
>>Resource Operational State	M		<a href="#">9.2.1.52</a>		–	
>>Availability Status	M		<a href="#">9.2.1.2</a>		–	
<b>&gt;CPCH Information</b>		<i>0..&lt;maxCP CHCell&gt;</i>			EACH	ignore
>>Common Transport Channel ID	M		<a href="#">9.2.1.14</a>		–	
>>Resource Operational State	M		<a href="#">9.2.1.52</a>		–	
>>Availability Status	M		<a href="#">9.2.1.2</a>		–	
<b>&gt;AP-AICH Information</b>		<i>0..&lt;maxCP CHCell&gt;</i>			EACH	ignore
>>Common Physical Channel ID	M		<a href="#">9.2.1.14</a>			
>>Resource Operational State	M		<a href="#">9.2.1.52</a>			
>>Availability Status	M		<a href="#">9.2.1.2</a>			
<b>&gt;CD/CA-ICH Information</b>		<i>0..&lt;maxCP CHCell&gt;</i>			EACH	ignore
>>Common Physical Channel ID	M		<a href="#">9.2.1.14</a>			
>>Resource Operational State	M		<a href="#">9.2.1.52</a>			
>>Availability Status	M		<a href="#">9.2.1.2</a>			
<b>&gt;SCH Information</b>		0..1			YES	ignore
>>Common Physical Channel ID	M		9.2.1.14		–	
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>Communication Control Port Information</b>		<i>0.. &lt;maxCCPi nNodeB&gt;</i>			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		–	
<b>Local Cell Information</b>		<i>0.. &lt;maxLocal CellinNode B&gt;</i>			EACH	ignore
>Local Cell ID	M		9.2.1.38		–	
>DL or Global Capacity Credit	M		9.2.2.12			
>UL Capacity Credit	O		9.2.2.60			
>Common Channels Capacity Consumption Law	M		9.2.2.3			
>Dedicated Channels Capacity Consumption Law	M		9.2.2.6			
>Maximum DL Power Capability	O		9.2.1.39		–	
Criticality diagnostics	O		9.2.1.17		YES	ignore

Range bound	Explanation
MaxCellinNodeB	Maximum number of Cell that can be configured in Node B
MaxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
MaxCPCHCell	Maximum number of CPCHes that can be defined in a Cell
MaxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
MaxPCPCHCell	Maximum number of PCPCHes that can be defined in a Cell
MaxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.
MaxSCCPCHCell	Maximum number of Secondary CCPCH that can be defined in a Cell.
MaxFACHCell	Maximum number of FACHes that can be defined in a Cell

## 9.1.18 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	reject
Common Measurement Object Type	M		9.2.1.10		YES	reject
CHOICE Common Measurement Object Type					YES	ignore
>"Cell"					YES	reject
>>C-ID	M		9.2.1.9		–	
>>Time Slot	O		9.2.3.23	TDD only	–	
>"RACH"					YES	reject
>>C-ID	M		9.2.1.9		–	
>>Common transport channel ID	M		9.2.1.14		–	
>"CPCH"				FDD only	YES	reject
>>C-ID	M		<a href="#">9.2.1.9</a>		–	
>>Common transport channel ID	M		<a href="#">9.2.1.14</a>		–	
>>Spreading Factor	O		Minimum UL Channelisation Code Length <a href="#">9.2.2.22</a>		–	
Common Measurement Type	M		9.2.1.11		YES	reject
Measurement Filter Coefficient	O		9.2.1.41		YES	reject
Report Characteristics	M		9.2.1.51		YES	reject

## 9.1.19 COMMON MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore
CHOICE Common <i>Measurement Object Type</i>				Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>"Cell"					YES	ignore
>>Common Measurement value	M		9.2.1.12		–	
>"RACH"					YES	ignore
>>Common Measurement Value	M		9.2.1.12		–	
>"CPCH"				FDD only	YES	Ignore
>>Common Measurement Value	M		<a href="#">9.2.1.12</a>		–	
SFN	O		<a href="#">9.2.1.53A</a>	Common Measurement Time Reference	YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore

## 9.1.32 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
Indication Type	M		9.2.1.36		YES	ignore
CHOICE Indication Type					YES	ignore
>"No Failure"					YES	ignore
<b>&gt;&gt;Node B Information</b>		1				
>>>DL or Global Capacity Credit	M		9.2.2.12			
>>>UL Capacity Credit	O		9.2.2.60			
>>>Common Channels Capacity Consumption Law	M		9.2.2.3			
>>>Dedicated Channels Capacity Consumption Law	M		9.2.2.6			
<b>&gt;&gt;Local Cell Information</b>		1.. <max LocalCellin NodeB >			EACH	ignore
>>>Local Cell ID	M		9.2.1.58		–	
>>>Add/Delete Indicator	M		9.2.1.1		–	
>>>DL or Global Capacity Credit	C-add		9.2.2.12			
>>>UL Capacity Credit	O		9.2.2.60			
>>>Common Channels Capacity Consumption Law	C-add		9.2.2.3			
>>>Dedicated Channels Capacity Consumption Law	C-add		9.2.2.6			
>>>Maximum DL Power Capability	M		9.2.1.39		–	
>"Service Impacting"					YES	ignore
<b>&gt;&gt;Node B Information</b>		0..1				
>>>DL or Global Capacity Credit	O		9.2.2.12			
>>>UL Capacity Credit	O		9.2.2.60			
<b>&gt;&gt;Local Cell Information</b>		0.. <maxLocal CellinNode B>			EACH	ignore
>>>Local Cell ID	M		9.2.1.38		–	
>>>DL or Global Capacity Credit	O		9.2.2.12			
>>>UL Capacity Credit	O		9.2.2.60			
>>>Maximum DL Power Capability	O		9.2.1.39		–	
<b>&gt;&gt;Communication Control Port Information</b>		0.. <maxCCPi nNodeB>			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		–	
<b>&gt;&gt;Cell Information</b>		0.. <maxCellin NodeB>			EACH	ignore
>>>C-ID	M		9.2.1.9		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
>>>Maximum DL Power Capability	FFS		9.2.1.39		–	
>>>Minimum Spreading Factor	FFS		9.2.1.47		–	
<b>&gt;&gt;Primary SCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;Secondary SCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;Primary CPICH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;Secondary CPICH Information</b>		0..<maxSC PICHCell>			EACH	ignore
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;Primary CCPCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;BCH Information</b>		0..1			YES	ignore
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;Secondary CCPCH Information</b>		0..<maxSC CPCHCell >			EACH	ignore



>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;PCH Information</b>		0..1			EACH	ignore
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;PICH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;FACH Information</b>		0.. <maxFACHCell>			EACH	ignore
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;PRACH Information</b>		0..<maxPRACHCell>			EACH	ignore
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;RACH Information</b>		0.. <maxRACHCell>			EACH	ignore
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;AICH Information</b>		0.. <maxAICHCell>			EACH	ignore
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;PCPCH Information</b>		0..<maxPCPCHCell>			EACH	ignore
>>>Common Physical Channel ID	M		<a href="#">9.2.1.13</a>		–	
>>>Resource Operational State	M		<a href="#">9.2.1.52</a>		–	
>>>Availability Status	M		<a href="#">9.2.1.2</a>		–	
<b>&gt;&gt;CPCH Information</b>		0.. <maxCPCHCell>			EACH	ignore
>>>Common Transport Channel ID	M		<a href="#">9.2.1.14</a>		–	

>>>Resource Operational State	M		<a href="#">9.2.1.52</a>		-	
>>>Availability Status	M		<a href="#">9.2.1.2</a>		-	
<b>&gt;&gt;AP-AICH Information</b>		0.. <maxCPC HCell>			EACH	ignore
>>>Common Physical Channel ID	M		<a href="#">9.2.1.13</a>		-	
>>>Resource Operational State	M		<a href="#">9.2.1.52</a>		-	
>>>Availability Status	M		<a href="#">9.2.1.2</a>		-	
<b>&gt;&gt;CD/CA-ICH Information</b>		0.. <maxCPC HCell>			EACH	ignore
>>>Common Physical Channel ID	M		<a href="#">9.2.1.13</a>		-	
>>>Resource Operational State	M		<a href="#">9.2.1.52</a>		-	
>>>Availability Status	M		<a href="#">9.2.1.2</a>		-	
<b>&gt;&gt;SCH Information</b>		0..1			YES	ignore
>>>Common Physical Channel ID	M		9.2.1.14		-	
>>>Resource Operational State	M		9.2.1.52		-	
>>>Availability Status	M		9.2.1.2		-	
Cause	O		9.2.1.6		YES	ignore

Condition	Explanation
C-add	This IE is present only if "Add/Delete Indicator" equals to add

Range bound	Explanation
<i>MaxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>MaxCellinNodeB</i>	Maximum number of C ID that can be configured in Node B
<i>MaxCPCHCell</i>	Maximum number of CPCHes that can be defined in a Cell
<i>MaxSCPICHCell</i>	Maximum number of Secondary CPICH that can be defined in a Cell.
<i>MaxSCCPCHCell</i>	Maximum number of Secondary CCPCH that can be defined in a Cell.
<i>MaxFACHCell</i>	Maximum number of FACHes that can be defined in a Cell
<i>MaxPCPCHCell</i>	Maximum number of PCPCHes that can be defined in a Cell
MaxPRACHCell	Maximum number of PRACHes and AICHes that can be defined in a Cell
<i>MaxCCPinNodeB</i>	Maximum number of communication control ports that can exist in the Node B
<i>MaxConsumptionLaws</i>	Maximum number of credit consumption laws.

<h2 style="margin: 0;">CHANGE REQUEST</h2>		<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>
<b>25.433</b>	<b>CR</b>	<b>219</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: <b>RAN#9</b> <small>list expected approval meeting # here</small> ↑		Current Version: <b>3.2.0</b>
for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>		strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

Form: CR cover sheet, version 2 for 3GPP and SMG    The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:**    (U)SIM     ME     UTRAN / Radio     Core Network   
(at least one should be marked with an X)

**Source:**    R-WG3    **Date:**    Aug. 2000

**Subject:**    Correction in Common measurement report message for CPCH.

**Work item:**    \_\_\_\_\_

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:**    Common measurement report message should be aligned for CPCH parameter.

**Clauses affected:**    \_\_\_\_\_

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> → List of CRs: Other GSM core specifications <input type="checkbox"/> → List of CRs: MS test specifications <input type="checkbox"/> → List of CRs: BSS test specifications <input type="checkbox"/> → List of CRs: O&M specifications <input type="checkbox"/> → List of CRs:	
------------------------------	--	--

**Other comments:**    Corresponding ASN.1 is also corrected.

## 9.1.21 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction Id	M		9.2.1.62		–	
Measurement Id	M		9.2.1.42		YES	ignore
CHOICE Common <i>Measurement Object Type</i>				Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>"Cell"					YES	ignore
>>CHOICE <i>Measurement Availability Indicator</i>						
>>>" <i>Measurement Available</i> "					YES	ignore
>>>Common Measurement value	M		9.2.1.12		–	
>>>" <i>Measurement not Available</i> "			NULL		YES	ignore
>"RACH"					YES	ignore
>>CHOICE <i>Measurement Availability Indicator</i>						
>>>" <i>Measurement Available</i> "					YES	ignore
>>>Common Measurement Value	M		9.2.1.12		–	
>>>" <i>Measurement not Available</i> "			NULL		YES	ignore
>"CPCH"				FDD only	YES	Ignore
>>CHOICE <i>Measurement Availability Indicator</i>						
>>>" <i>Measurement Available</i> "					YES	ignore
>>>Common Measurement Value	<u>M</u>		<u>9.2.1.12</u>		=	
>>>" <i>Measurement not Available</i> "			<u>NULL</u>		YES	ignore
>>Common Measurement Value	<u>M</u>				–	
SFN	O		<u>9.2.1.53A</u>	Common Measurement Time Reference	YES	ignore

[Partially ommitted]

```

-- *****
--
-- 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 ::= {
    ...
}

CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
    cell          Cell-CM-Rprt,
    rACH          RACH-CM-Rprt,
    cPCH          CPCH-CM-Rprt,
    ...
}

Cell-CM-Rprt ::= ProtocolIE-Container {{ CellIE-CM-Rprt }}

CellIE-CM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-CellItem-CM-Rprt CRITICALITY ignore TYPE CellItem-CM-Rprt PRESENCE mandatory },
    ...
}

CellItem-CM-Rprt ::= SEQUENCE {
    measurementAvailabilityIndicator MeasurementAvailabilityIndicator-CommonMeasurementReport,
    iE-Extensions ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }} OPTIONAL,
    ...
}

```

```

CellItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-CM-Rprt ::= ProtocolIE-Container {{ RACHIE-CM-Rprt }}

RACHIE-CM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-RACHItem-CM-Rprt    CRITICALITY ignore    TYPE RACHItem-CM-Rprt    PRESENCE mandatory },
    ...
}

RACHItem-CM-Rprt ::= SEQUENCE {
    measurementAvailabilityIndicator    MeasurementAvailabilityIndicator-CommonMeasurementReport,
    iE-Extensions                      ProtocolExtensionContainer {{ RACHItem-CM-Rprt-ExtIEs }}    OPTIONAL,
    ...
}

RACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CPCH-CM-Rprt ::= ProtocolIE-Container {{ CPCHIE-CM-Rprt }}

CPCHIE-CM-Rprt NBAP-PROTOCOL-IES ::= {
    { ID id-CPCHItem-CM-Rprt    CRITICALITY ignore    TYPE CPCHItem-CM-Rprt    PRESENCE optional },
    ...
}

CPCHItem-CM-Rprt ::= SEQUENCE {
    measurementAvailabilityIndicator    MeasurementAvailabilityIndicator-CommonMeasurementReport,
    iE-Extensions                      ProtocolExtensionContainer {{ CPCHItem-CM-Rprt-ExtIEs }}    OPTIONAL,
    ...
}

CPCHItem-CM-Rprt ::= SEQUENCE {
    commonMeasurementValue             CommonMeasurementValue,
    iE-Extensions                      ProtocolExtensionContainer {{ CPCHItem-CM-Rprt-ExtIEs }}    OPTIONAL,
    ...
}

CPCHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

MeasurementAvailabilityIndicator-CommonMeasurementReport ::= CHOICE {
    measurementAvailable                MeasurementAvailable-CommonMeasurementReport,
    measurementnotAvailable             MeasurementnotAvailable-CommonMeasurementReport,
    ...
}

MeasurementAvailable-CommonMeasurementReport ::= ProtocolIE-Container {{ MeasurementAvailableIE-CommonMeasurementReport }}

```

```
MeasurementAvailableIE-CommonMeasurementReport NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementAvailableItem-CommonMeasurementReport CRITICALITY ignore TYPE MeasurementAvailableItem-CommonMeasurementReport
  PRESENCE mandatory},
  ...
}

MeasurementAvailableItem-CommonMeasurementReport ::= SEQUENCE {
  commonmeasurementValue CommonMeasurementValue,
  ie-Extensions ProtocolExtensionContainer { { MeasurementAvailableItem-CommonMeasurementReport-ExtTIES } } OPTIONAL,
  ...
}

MeasurementAvailableItem-CommonMeasurementReport-ExtTIES NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

MeasurementnotAvailable-CommonMeasurementReport ::= ProtocolIE-Container {{ MeasurementnotAvailableIE-CommonMeasurementReport }}

MeasurementnotAvailableIE-CommonMeasurementReport NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementnotAvailableItem-CommonMeasurementReport CRITICALITY ignore TYPE MeasurementnotAvailableItem-CommonMeasurementReport
  PRESENCE mandatory},
  ...
}

MeasurementnotAvailableItem-CommonMeasurementReport ::= NULL
```

[Partially ommitted]

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>25.433</b>	<b>CR 220r1</b>	Current Version: <b>3.2.0</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑	↑ CR number as allocated by MCC support team	
For submission to: <b>TSG RAN#9</b> <small>list expected approval meeting # here ↑</small>	for approval for information <input checked="" type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
(at least one should be marked with an X)

**Source:** R-WG3 **Date:** Aug. 2000

**Subject:** Power Offset for AP-AICH, CD/CA-ICH and CSICH

**Work item:**

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
------------------	--	-----------------	--

(only one category shall be marked with an X)

**Reason for change:** Power offsets for AP-AICH, CD/CA-ICH and CSICH should be aligned with Power offset for AICH.

**Clauses affected:** 9.1.3, 9.1.6, 9.3.3

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: → List of CRs: → List of CRs: → List of CRs:	
------------------------------	---	--	--

**Other comments:** This CR is dependent on approval of Tdoc R3-001914 CR 25.433 181r1.



<----- double-click here for help and instructions on how to create a CR.



## 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>CHOICE common physical channel to be configured</b>					YES	ignore
>Secondary CCPCH					YES	reject
<b>&gt;Secondary CCPCH</b>		1				
>>Common Physical Channel ID	M		9.2.1.13		–	
>>FDD S-CCPCH Offset	M		9.2.2.15	Corresponds to [7]: s-CCPCH,k	–	
>>DL Scrambling Code	M		9.2.2.13		–	
>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>TFCS	M		9.2.1.54	For the DL.	–	
>>Secondary CCPCH Slot Format	M		9.2.2.43		–	
>>>TFCI Presence	C – SlotFormat		9.2.1.57		–	
>>Multiplexing Position	M		9.2.2.23		–	
<b>&gt;&gt;Power Offset Information</b>		1			–	
>>>PO1	M		Power Offset	Power offset for the TFCI bits	–	
>>>PO3	M		Power Offset	Power offset for the pilot bits	–	
>>STTD Indicator	M		9.2.2.47		–	
<b>&gt;&gt;FACH Parameters</b>	C-choiceCh	0..<maxnoofFACHs>			GLOBAL	reject
>>>Common transport channel ID	M		9.2.1.14		–	
>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>ToAWS	M		9.2.1.61		–	
>>>ToAWE	M		9.2.1.60		–	
>>>Max FACH Power	M		DL Power 9.2.1.21	Maximum allowed power on the FACH.	–	
<b>&gt;&gt;PCH Parameters</b>	C-choiceCh	0..1			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>ToAWS	M		9.2.1.61		–	
>>>ToAWE	M		9.2.1.60		–	

>>>PCH Power	M		DL Power 9.2.1.21		-	
<b>&gt;&gt;&gt;PICH Parameters</b>		1			-	
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>DL Scrambling Code	M		9.2.2.13		-	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		-	
>>>>PICH Power	M		DL Power 9.2.1.21	Power to be used on the PICH	-	
>>>>PICH Mode	M		9.2.2.26	Number of PI per frame	-	
>>>>STTD Indicator	M		9.2.2.48		-	
>PRACH					YES	reject
<b>&gt;PRACH</b>		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		-	
<b>&gt;&gt;Allowed Slot Format Information</b>		1..<Maximum number of slots per PRACH>			-	
>>>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		-	
<b>&gt;&gt;&gt;RACH Parameters</b>		1			YES	reject
>>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>>Transport Format Set	M		9.2.1.59	For the UL.	-	
<b>&gt;&gt;&gt;&gt;AICH Parameters</b>		1			-	
>>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>>DL Scrambling Code	M		9.2.2.13		-	
>>>>>AICH Transmission Timing	M		9.2.2.1		-	
>>>>>FDD DL Channelisation Code Number	M		9.2.2.14		-	
>>>>>AICH Power	M		DL Power 9.2.1.21		-	
>>>>>STTD Indicator	M		9.2.2.47		-	
>PCPCHes					YES	Reject
<b>&gt;&gt;CPCH Parameters</b>		1			-	
>>>Common Transport Channel ID	M				-	
>>>Transport Format Set	M			For the UL.	-	
>>>AP Preamble Scrambling Code	M		CPCH Scrambling Code Number		-	
>>>CD Preamble	M		CPCH		-	

Scrambling Code			Scrambling Code Number			
>>>TFCS	M			For the UL	-	
>>>CD Signatures	O		Preamble Signatures	Note: When not present, all CD signatures are to be used.	-	
>>>CD Sub Channel Numbers	C-CDSig				-	
>>>Puncture Limit	M			For the UL	-	
>>>CPCH UL DPCCH Slot Format	M			For UL CPCH message control part	-	
>>>UL SIR	M		UL SIR		-	
>>>Initial DL transmission Power	M		DL Power		-	
>>>Maximum DL Power	M		DL Power		-	
>>>Minimum DL Power	M		DL Power		-	
>>>PO2	M		Power Offset	Power offset for the TPC bits	-	
>>>PO3	M		Power Offset	Power offset for the pilot bits	-	
>>>FDD TPC DL Step Size	M				-	
>>>N_Start_Message	M				-	
>>>N_EOT	M				-	
>>>Channel Assignment Indication	M				-	
>>>CPCH Allowed Total Rate	M				-	
>>> <b>PCPCH Channel Information</b>		<i>1..&lt;maxnoofPCPCHs&gt;</i>			-	
>>>>Common Physical Channel ID	M				-	
>>>>CPCH Scrambling Code Number	M			For UL PCPCH	-	
>>>>DL Scrambling Code	M			For DL CPCH message part	-	
>>>>FDD DL Channelisation Code Number	M			For DL CPCH message part	-	
>>>>PCP Length	M				-	
>>>> <b>UCSM Information</b>	C-NCA	<i>1</i>			-	
>>>>>Min UL Channelisation Code Length	M				-	
>>>>>NF_max	M				-	
>>>>> <b>Channel</b>		<i>0..&lt;max&gt;</i>			-	

<b>Request Parameters</b>		<i>xAPSig Num&gt;</i>				
>>>>>AP Preamble Signature	M				-	
>>>>>AP Sub Channel Number	O				-	
<b>&gt;&gt;&gt;&gt;VCAM Mapping Information</b>	C-CA	<i>1..&lt;max noofLen&gt;</i>		Refer to TS [18]	-	
>>>>Min UL Channelisation Code Length	M				-	
>>>>NF_max	M				-	
>>>>Max Number of PCPCHes	M				-	
<b>&gt;&gt;&gt;&gt;SF Request Parameters</b>		<i>1..&lt;max APSig Num&gt;</i>			-	
>>>>>AP Preamble Signature	M				-	
>>>>>AP Sub Channel Number	O				-	
<b>&gt;&gt;&gt;&gt;AP-AICH Parameters</b>		<i>1</i>			-	
>>>>>Common Physical Channel ID	M				-	
>>>>>DL Scrambling Code	M				-	
>>>>>FDD DL Channelisation Code Number	M				-	
>>>>>AP-AICH Power	M		<a href="#">AICH power 9.2.2.xDL Power</a>		-	
>>>>>CSICH Power	M		<a href="#">AICH power 9.2.2.xDL Power</a>	For CSICH bits at end of AP-AICH slot	-	
>>>>>STTD Indicator	O				-	
<b>&gt;&gt;&gt;&gt;CD/CA-ICH Parameters</b>		<i>1</i>			-	
>>>>>Common Physical Channel ID	M				-	
>>>>>DL Scrambling Code	M				-	
>>>>>FDD DL Channelisation Code Number	M				-	
>>>>>CD/CA-ICH Power	M		<a href="#">AICH power 9.2.2.xDL Power</a>		-	
>>>>>STTD Indicator	O				-	

## 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

### 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
<b>CHOICE common physical channel to be reconfigured</b>					YES	reject
> <i>Secondary CCPCH</i>					YES	reject
>> <b>FACH parameters</b>		0..<maxFACHCell>			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Max FACH Power	O		DL Power 9.2.1.21	Maximum allowed power on the FACH.	–	
>>>ToAWS	O		9.2.1.61		–	
>>>ToAWE	O		9.2.1.60		–	
>> <b>PCH Parameters</b>		0..1			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>PCH Power	O		DL Power 9.2.1.21	Power to be used on the PCH.	–	
>>>ToAWS	O		9.2.1.61		–	
>>>ToAWE	O		9.2.1.60		–	
>> <b>PICH Parameters</b>		0..1			YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>PICH Power	M		DL Power 9.2.1.21	Power to be used on the PICH	–	
> <i>PRACH</i>					YES	reject
>> <b>PRACH Parameters</b>		0..<MaxPRACHCell>			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Preamble Signatures	M		9.2.2.31		–	
>>> <b>Allowed Slot Format Information</b>		0..<Maxno ofSlotFormatsPRACH>			–	
>>>>RACH Slot Format	M		9.2.2.37		–	
>>>>RACH Sub Channel Numbers	O		9.2.2.38		–	
>> <b>AICH Parameters</b>		0..<MaxPRACHCell>			GLOBAL	reject

>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>AICH Power	M		DL Power 9.2.1.21	Power to be used on the AICH	–	
>CPCH					YES	reject
>>CPCH Parameters		0..<maxno ofCPCHs>			GLOBAL	reject
>>>Common Transport Channel ID	M				–	
>>>UL SIR	O				–	
>>>Initial DL transmission Power	O		DL Power		–	
>>>Maximum DL Power	O		DL Power		–	
>>>Minimum DL Power	O		DL Power		–	
>>AP-AICH Parameters		0..<maxno ofCPCHs>			GLOBAL	reject
>>>Common Physical Channel ID	M				–	
>>>AP-AICH Power	M		<a href="#">AICH power 9.2.2.xDL Power</a>		–	
>>>CSICH Power	O		<a href="#">AICH power 9.2.2.xDL Power</a>	For CSICH bits at end of AP-AICH slot	–	
>>CD/CA-ICH Parameters		0..<maxno ofCPCHs>			GLOBAL	reject
>>>Common Physical Channel ID	M				–	
>>>CD/CA-ICH Power	M		<a href="#">AICH power 9.2.2.xDL Power</a>		–	

Range bound	Explanation
MaxFACHCell	Maximum number of FACHs that can be defined in a Cell
MaxnoofCPCHs	Maximum number of CPCHs that can be defined in a Cell
MaxPRACHCell	Maximum number of PRACHs and AICHs that can be defined in a Cell
MaxnoofSlotFormatsPRACH	Maximum number of SF for a PRACH

## 9.3.3 NBAP PDU Content Definitions

[Partially ommitted]

```

-- *****
--
-- 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,
    pCPCHes-parameters        PCPCH-CTCH-SetupRqstFDD,
    ...
}

Secondary-CCPCH-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ Secondary-CCPCHIE-CTCH-SetupRqstFDD
}}

Secondary-CCPCHIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-Secondary-CCPCHItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE Secondary-CCPCHItem-
CTCH-SetupRqstFDD PRESENCE mandatory },
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    fdd-S-CCPCH-Offset      FDD-S-CCPCH-Offset,
    dl-ScramblingCode       DL-ScramblingCode,
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    tFCS                    TFCS,
    secondary-CCPCH-SlotFormat SecondaryCCPCH-SlotFormat,
    tFCI-Presence           TFCI-Presence OPTIONAL,
    -- This IE is present only if the Secondary CCPCH Slot Format is equal to any value 8 to 17
multiplexingPosition      MultiplexingPosition,
    powerOffsetInformation  PowerOffsetInformation-CTCH-SetupRqstFDD,
    sTTD-Indicator         STTD-Indicator,
    fACH-Parameters        FACH-ParametersList-CTCH-SetupRqstFDD OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    pCH-Parameters        PCH-Parameters-CTCH-SetupRqstFDD OPTIONAL,
    -- One of the channels FACH or PCH or both must be present
    iE-Extensions         ProtocolExtensionContainer { { Secondary-CCPCHItem-
CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
    p01-ForTFCI-Bits      PowerOffset,
    p03-ForPilotBits      PowerOffset,
}

```

```

    iE-Extensions          ProtocolExtensionContainer { {
PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ FACH-ParametersListIEs-CTCH-
SetupRqstFDD }}

FACH-ParametersListIEs-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-SetupRqstFDD CRITICALITY reject TYPE FACH-
ParametersListIE-CTCH-SetupRqstFDD PRESENCE mandatory },
    ...
}

FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-
ParametersItem-CTCH-SetupRqstFDD

FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    transportFormatSet                TransportFormatSet,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    maxFACH-Power                    DL-Power,
    iE-Extensions                    ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-
SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD
}}

PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-ParametersItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-
CTCH-SetupRqstFDD PRESENCE mandatory },
    ...
}

PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID          CommonTransportChannelID,
    transportFormatSet                TransportFormatSet,
    toAWS                             ToAWS,
    toAWE                             ToAWE,
    pCH-Power                        DL-Power,
    pICH-Parameters                  PICH-Parameters-CTCH-SetupRqstFDD,

    iE-Extensions                    ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-
SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    dl-ScramblingCode                DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    pICH-Power                       DL-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 ::= {
    ...
}

PRACH-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ PRACHIE-CTCH-SetupRqstFDD }}

```



```

PRACHIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-PRACHItem-CTCH-SetupRqstFDD CRITICALITY reject TYPE PRACHItem-CTCH-SetupRqstFDD
    PRESENCE mandatory },
  ...
}

PRACHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  scramblingCodeNumber ScramblingCodeNumber,
  tFCS TFCS,
  preambleSignatures PreambleSignatures,
  allowedSlotFormatInformation AllowedSlotFormatInformationList-CTCH-
SetupRqstFDD,
  rACH-SubChannelNumbers RACH-SubChannelNumbers,
  ul-punctureLimit PunctureLimit,
  preambleThreshold PreambleThreshold,
  rACH-Parameters RACH-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-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,
  aICH-Parameters AICH-Parameters-CTCH-SetupRqstFDD,
  iE-Extensions ProtocolExtensionContainer { { RACH-
ParametersItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  dl-ScramblingCode DL-ScramblingCode,
  aICH-TransmissionTiming AICH-TransmissionTiming,
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  aICH-Power DL-Power,
  sTTD-Indicator STTD-Indicator,
  iE-Extensions ProtocolExtensionContainer { { AICH-Parameters-
CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCPCH-CTCH-SetupRqstFDD ::= ProtocolIE-Container {{ PCPCHIE-CTCH-SetupRqstFDD }}

```

```

PCPCHIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-PCPCHItem-CTCH-SetupRqstFDD      CRITICALITY reject   TYPE PCPCHItem-CTCH-SetupRqstFDD
    PRESENCE optional },
  ...
}

PCPCHItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  cPCH-Parameters          CPCH-Parameters-CTCH-SetupRqstFDD,
  iE-Extensions            ProtocolExtensionContainer { { PCPCHItem-CTCH-SetupRqstFDD-
ExtIEs} }                  OPTIONAL,
  ...
}

PCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonTransportChannelID      CommonTransportChannelID,
  transportFormatSet            TransportFormatSet,
  aPPreambleScramblingCode      CPCHScramblingCodeNumber,
  cDPreambleScramblingCode      CPCHScramblingCodeNumber,
  tFCS                           TFCS,
  cDSignatures                   PreambleSignatures          OPTIONAL,
  cDSubChannelNumbers            CDSUBChannelNumbers          OPTIONAL,
  -- this IE may be present only if the CD Signatures is present --
  punctureLimit                  PunctureLimit,
  cPCH-UL-DPCCH-SlotFormat       CPCH-UL-DPCCH-SlotFormat,
  uL-SIR                          UL-SIR,
  initialDL-transmissionPower     DL-Power,
  maximumDLPower                  DL-Power,
  minimumDLPower                  DL-Power,
  pO2-ForTPC-Bits                 PowerOffset,
  pO3-ForPilotBits                 PowerOffset,
  fDD-TPC-DownlinkStepSize        FDD-TPC-DownlinkStepSize,
  nStartMessage                   NStartMessage,
  nEOT                             NEOT,
  channel-Assignment-Indication    Channel-Assignment-Indication,
  cPCH-Allowed-Total-Rate          CPCH-Allowed-Total-Rate,
  pCPCHChannelInformationList-CTCH-SetupRqstFDD,
  vCAMMapping-InformationList-CTCH-SetupRqstFDD          OPTIONAL,
  -- this IE is only present if the Channel Assignment Indication is equal to CA Active --
  aP-AICH-Parameters              AP-AICH-Parameters-CTCH-SetupRqstFDD,
  cDCA-ICH-Parameters              CDCA-ICH-Parameters-CTCH-SetupRqstFDD,
  iE-Extensions                    ProtocolExtensionContainer { { CPCH-Parameters-CTCH-
SetupRqstFDD-ExtIEs} }          OPTIONAL,
  ...
}

CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCPCHChannelInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPCPCHs)) OF
PCPCHChannelInformationItem-CTCH-SetupRqstFDD

PCPCHChannelInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID        CommonPhysicalChannelID,
  cPCHScramblingCodeNumber        CPCHScramblingCodeNumber,
  dL-ScramblingCode                DL-ScramblingCode,
  fdd-dl-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
  pCP-Length                       PCP-Length,
  uCSM-Information                 UCSM-Information-CTCH-SetupRqstFDD          OPTIONAL,
  -- this IE is only present if the Channel Assignment Indication is equal to CA Inactive --
  iE-Extensions                    ProtocolExtensionContainer { {
PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs} }          OPTIONAL,
  ...
}

PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UCSM-Information-CTCH-SetupRqstFDD ::= SEQUENCE {
  minUL-ChannelisationCodeLength  MinUL-ChannelisationCodeLength,
  nFmax                             NFmax,
  channelRequestParametersList-CTCH-SetupRqstFDD,
  OPTIONAL,
  iE-Extensions                    ProtocolExtensionContainer { { UCSM-InformationItem-
CTCH-SetupRqstFDD-ExtIEs} }          OPTIONAL,
}

```

```

}
...
UCSM-InformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

ChannelRequestParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxAPSigNum)) OF
ChannelRequestParametersItem-CTCH-SetupRqstFDD

ChannelRequestParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    aPPreambleSignature      APPreambleSignature,
    aPSubChannelNumber       ASubChannelNumber      OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { ChannelRequestParametersItem-
CTCH-SetupRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

ChannelRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

VCAMMapping-InformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNoofLen)) OF VCAMMapping-
InformationItem-CTCH-SetupRqstFDD

VCAMMapping-InformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    minUL-ChannelisationCodeLength  MinUL-ChannelisationCodeLength,
    nFmax                            NFmax,
    max-Number-of-PCPCHes           Max-Number-of-PCPCHes,
    sFRequestParametersList-CTCH-SetupRqstFDD,
    iE-Extensions                   ProtocolExtensionContainer { { VCAMMapping-
InformationItem-CTCH-SetupRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

VCAMMapping-InformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

SFRequestParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxAPSigNum)) OF
SFRequestParametersItem-CTCH-SetupRqstFDD

SFRequestParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    aPPreambleSignature      APPreambleSignature,
    aPSubChannelNumber       ASubChannelNumber      OPTIONAL,
    iE-Extensions            ProtocolExtensionContainer { { SFRequestParametersItem-CTCH-
SetupRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

SFRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

AP-AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    dl-ScramblingCode            DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    aP-AICH-Power                AICHDL-Power,
    cSICH-Power                  AICHDL-Power,
    sTTD-Indicator               STTD-Indicator      OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { AP-AICH-
Parameters-CTCH-SetupRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CDCA-ICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    dl-ScramblingCode            DL-ScramblingCode,
    fdd-dl-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    cDCA-ICH-Power               AICHDL-Power,
    sTTD-Indicator               STTD-Indicator      OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { CDCA-ICH-
Parameters-CTCH-SetupRqstFDD-ExtIEs} }      OPTIONAL,
    ...
}

```

```

CDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

[Partially omitted]

```

-- *****
--
-- 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,
  cPCH-parameters           CPCHList-CTCH-ReconfRqstFDD,
  ...
}

Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ Secondary-CCPCHListIEs-CTCH-
ReconfRqstFDD }}

Secondary-CCPCHListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-Secondary-CCPCHListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE Secondary-
CCPCHListIE-CTCH-ReconfRqstFDD PRESENCE optional },
  ...
}

Secondary-CCPCHListIE-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 ::= {
  ...
}

FACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-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-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF FACH-
ParametersItem-CTCH-ReconfRqstFDD

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 ::= {
    ...
}

PCH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-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,
    pCH-Power                         DL-Power          OPTIONAL,
    toAWS                              ToAWS            OPTIONAL,
    toAWE                              ToAWE            OPTIONAL,
    iE-Extensions                     ProtocolExtensionContainer { { PCH-ParametersItem-
CTCH-ReconfRqstFDD-ExtIEs } }      OPTIONAL,
    ...
}

PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PICH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-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 {
    commonTransportChannelID          CommonTransportChannelID,
    pICH-Power                         DL-Power,
    iE-Extensions                     ProtocolExtensionContainer { { PICH-ParametersItem-
CTCH-ReconfRqstFDD-ExtIEs } }      OPTIONAL,
    ...
}

PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ PRACHListIEs-CTCH-ReconfRqstFDD }}

PRACHListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PRACHListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PRACHListIE-CTCH-
ReconfRqstFDD PRESENCE optional },
    ...
}

PRACHListIE-CTCH-ReconfRqstFDD ::= SEQUENCE {
    pRACH-ParametersList-CTCH-ReconfRqstFDD PRACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    aICH-ParametersList-CTCH-ReconfRqstFDD AICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    iE-Extensions                     ProtocolExtensionContainer { { PRACH-CTCH-
ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

PRACH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-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 ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF PRACH-
ParametersItem-CTCH-ReconfRqstFDD

PRACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  preambleSignatures PreambleSignatures,
  allowedSlotFormatInformation AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD
OPTIONAL,
  rACH-SubChannelNumbers RACH-SubChannelNumbers OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { PRACH-ParametersItem-
CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..
maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  rACH-SlotFormat RACH-SlotFormat,
  iE-Extensions ProtocolExtensionContainer { {
AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-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 {
  commonTransportChannelID CommonTransportChannelID,
  aICH-Power DL-Power,
  iE-Extensions ProtocolExtensionContainer { { AICH-
ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCHList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ CPCHListIE-CTCH-ReconfRqstFDD }}

CPCHListIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-CPCHListItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CPCHListItem-CTCH-
ReconfRqstFDD PRESENCE mandatory },
  ...
}

CPCHListItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  cPCHListItem-CTCH-ReconfRqstFDD CPCHListItem-CTCH-ReconfRqstFDD
OPTIONAL,
  aP-AICH-ParametersList-CTCH-ReconfRqstFDD AP-AICH-ParametersList-CTCH-ReconfRqstFDD
OPTIONAL,
  cDCA-ICH-ParametersList-CTCH-ReconfRqstFDD CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD
OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { CPCHListItem-
CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
  ...
}

```

```

}

CPCHListItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CPCH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ CPCH-ParametersListIEs-CTCH-
ReconfRqstFDD }}

CPCH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CPCH-
ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory },
    ...
}

CPCH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF CPCH-
ParametersItem-CTCH-ReconfRqstFDD

CPCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    uL-SIR UL-SIR OPTIONAL,
    initialDL-transmissionPower DL-Power OPTIONAL,
    maximumDLPower DL-Power OPTIONAL,
    minimumDLPower DL-Power OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { CPCH-ParametersItem-CTCH-
ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

CPCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AP-AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ AP-AICH-ParametersListIEs-
CTCH-ReconfRqstFDD }}

AP-AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE AP-AICH-
ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory },
    ...
}

AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF AP-AICH-
ParametersItem-CTCH-ReconfRqstFDD

AP-AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    aP-AICH-Power AICHDL-Power,
    cSICH-Power AICHDL-Power,
    iE-Extensions ProtocolExtensionContainer { { AP-AICH-
ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

AP-AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Container {{ CDCA-ICH-
ParametersListIEs-CTCH-ReconfRqstFDD }}

CDCA-ICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CDCA-ICH-
ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory },
    ...
}

CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF AP-AICH-
ParametersItem-CTCH-ReconfRqstFDD

CDCA-ICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID CommonTransportChannelID,
    cDCA-ICH-Power AICHDL-Power,
    iE-Extensions ProtocolExtensionContainer { { CDCA-ICH-
ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

}

[Partially ommitted]